



DATE:

29 June 2023

TRANSMITTAL TO:

Ms. Susan Kunz, Administrator
Housing and Community Development
County of Hawaii
1990 Kinoole Street, Suite 102
Hilo, Hawaii 96720

VIA EMAIL TO:

ohcd@hawaiiicounty.com

SUBJECT:

**OH.4) COMMUNITY PLANNING
(Environmental Assessment)
Fiscal Year 2023-2024**

TRANSMITTAL:

Statement of Qualifications (pdf copy)

MESSAGE:

Dear Members of the Selection Committee:

In response to the 1 June 2023 “Notice to Providers of Professional Services” announcement posted on the State of Hawaii Procurement website, SSFM International, Inc. (SSFM) is very pleased to present this letter of interest and our *Statement of Qualifications* for Environmental Assessment services.

Your consideration of SSFM with our carefully selected Project Team for your Fiscal Year 2023-2024 project will be greatly appreciated.

SSFM INTERNATIONAL, INC.

Michael P. Matsumoto, P.E., FACEC
President / CEO

SSFM INTERNATIONAL, INC.

Austen Drake, P.E.
Manager, Hilo Office

STATEMENT OF QUALIFICATIONS

Housing and Community Development Fiscal Year 2023-2024

OH.4) Community Planning ENVIRONMENTAL ASSESSMENT

29 June 2023

SUBMITTED TO:

Ms. Susan Kunz, Administrator
Housing and Community Development
County of Hawaii
1990 Kinoole Street, Suite 102
Hilo, Hawaii 96720

VIA EMAIL:
ohcd@hawaiicounty.com



SUBMITTED BY:

SSFM International, Inc.
99 Aupuni Street, Suite 202
Hilo, Hawaii 96720
(808) 933-2727

www.ssfm.com

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County of Hawaii
Housing and Community Development
STATEMENT OF QUALIFICATIONS
Fiscal Year 2023-2024

#1: Expression of Interest Letter



OH.4) COMMUNITY PLANNING
(Environmental Assessment)



LETTER OF INTEREST

29 June 2023

Ms. Susan Kunz, Administrator
Housing and Community Development
County of Hawaii
1990 Kinoole Street, Suite 102
Hilo, Hawaii 96720

Subject: **OH.4) Community Planning**
(ENVIRONMENTAL ASSESSMENT)
Fiscal Year 2023-2024

In response to the 1 June 2023 “Notice to Providers of Professional Services” announcement posted on the State of Hawaii Procurement website, SSFM International, Inc. (SSFM) is very pleased to present this letter of interest and our *Statement of Qualifications* for Environmental Assessment services.

SSFM has a demonstrated track record of successful projects with the County of Hawaii and we view our relationship as a long term partnership. We wish to continue to be a part of the programs and projects of your Department. We have extensive experience with the preparation of environmental assessments in Hawaii. In addition, our experience with environmental assessment preparation will be a proven asset to assignment within your Department.

Your consideration of SSFM for your Fiscal Year 2023-2024 projects will be greatly appreciated.

With warmest regards,

SSFM INTERNATIONAL, INC.

Hugh Y. Ono, P.E.
Vice President
email: hono@ssfm.com

SSFM INTERNATIONAL, INC.

Austen Drake, P.E.
Manager, Hilo Office
email: adrake@ssfm.com

County of Hawaii
Housing and Community Development
STATEMENT OF QUALIFICATIONS
Fiscal Year 2023-2024

#2:

**Name of Firm, Principal Place of
Business, & Location of All Offices**



OH.4) COMMUNITY PLANNING
(Environmental Assessment)

Name of Firm **SSFM International, Inc.**

Main Office
Iwilei Business Center
501 Sumner Street, Suite 620
Honolulu, Hawaii 96817
Phone: (808) 531-1308
Fax: (808) 521-7348
Email: mmatsumoto@ssfm.com

<p>Offices</p> <p><u>Maui Office</u> 82 Pulehu Place, Suite 201 Kahului, Hawaii 96732 Phone: (808) 244-7630 Fax: (855) 329-7736 Email: ematsuda@ssfm.com</p>	<p><u>Manila Office</u> 78 8th Avenue, 4th Floor Cubao, Quezon City 1109 Philippines Phone: +63 (2) 911-9270 Email: jmorales@ssfm.com</p>
<p><u>Kauai Office</u> 3215 Kuhio Highway, Unit 106 Lihue, Hawaii 96766 Phone: (808) 245-3075 Fax: (855) 329-7736 Email: ggokan@ssfm.com</p>	<p><u>Okinawa Office</u> Sunflower Bldg. #201 2-19-9 Chatan, Chatan-cho, Nakagami-gun Okinawa 904-0116, Japan Phone: +81 (98) 923-4471 Email: mmatsumoto@ssfm.com</p>
<p><u>Hilo Office</u> 99 Aupuni Street, Suite 202 Hilo, Hawaii 96720 Phone: (808) 933-2727 Fax: (855) 329-7736 Email: adrake@ssfm.com</p>	<p><u>Guam Office</u> Ixora Industrial Park 215 Rojas Street, Suite 213 Harmon, Guam 96913 Phone: (671) 646-7736 Fax: (855) 329-7736 Email: jduenas@ssfm.com</p>

SSFM's Core Services

- | | |
|---|---|
| <ul style="list-style-type: none"> ✓ Program Management ✓ Project Management ✓ Community Planning ✓ Master Planning ✓ Special Area Studies for Complete Streets ✓ Environmental Assessments & Impact Statements | <ul style="list-style-type: none"> ✓ Construction Management ✓ Civil Engineering ✓ Traffic Engineering ✓ Structural Engineering ✓ Special Inspections ✓ GIS Programming |
|---|---|

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County of Hawaii
Housing and Community Development
STATEMENT OF QUALIFICATIONS
Fiscal Year 2023-2024

#3:
**Age of Firm & Average Number of
Employees Over the Past 5 Years**



OH.4) COMMUNITY PLANNING
(Environmental Assessment)

AGE OF FIRM

We have been in business in the State of Hawaii for over 64 years.

SSFM International, Inc. is a 100% employee-owned company founded in 1959 currently providing professional project management, planning, civil engineering, structural engineering, and construction management services in the State of Hawaii and the Pacific Region.

AVERAGE NUMBER OF EMPLOYEES FOR THE LAST 5 YEARS

<u>YEAR</u>	<u>NUMBER OF EMPLOYEES</u>		
2022	197		
2021	204		
2020	206		
2019	190		
<u>2018</u>	<u>188</u>		
Total	985		
Average	985/5	=	197 employees per year

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County of Hawaii
Housing and Community Development
STATEMENT OF QUALIFICATIONS
Fiscal Year 2023-2024

#4: Education, Training, & Qualifications of Key Members of the Firm



OH.4) COMMUNITY PLANNING
(Environmental Assessment)



Hugh Y. Ono, P.E.

Vice President | Associate

Mr. Ono is the Vice President in charge of SSFM's Hawaii Island Office. In this role, he serves as the principal point-of-contact for SSFM's Hawaii Island clients, and provides project management services on specific projects. He maintains a close relationship with all government agencies on the Island of Hawaii and serves as a member of SSFM's government affairs group.

PRIOR WORK EXPERIENCE

SSFM International

EDUCATION

B.S., Civil Engineering,
University of Hawaii
(1965)

REGISTRATION

Hawaii, Civil
Engineering #2652-C

Department of Transportation, Highways Division, *State of Hawaii* (January 1996 through December 1998), Division Administrator. Directed the administration and operations of the Highways Division including Engineering, Construction, Maintenance, Administration, Property Management, Traffic Operations, and Motor Carrier Safety. Resources included: 1000 employees, \$160 million operating budget, and \$400 million Capital Improvement Budget. Key accomplishments included the following:

- Initiated Hawaii's first moveable barrier Zipper lane project on the island of Oahu.
- Initiated Hawaii's Highway Intelligent Transportation System project.
- Directed the statewide training and design workshop for staff engineers from State, County and private sector to include an instruction manual.
- Completed and dedicated the H-3 new Interstate Highway within the funding allocated and on time.
- Completed the Kalaniana'ole Highway Improvements, a project with much delay and political problems.

Department of Transportation, Highways Division, Hawaii District, *State of Hawaii* (1990 to 1995), District Engineer. Directed the operations of 130 personnel and a \$9-million budget on the Island of Hawaii to include: Engineering, Traffic Operations, Maintenance, Capital Improvements, Motor Vehicle Carrier Safety and Administration.

Department of Public Works, *County of Hawaii* (1984 to 1990), Chief Engineer (Director). Directed and administered the activities of seven (7) divisions, including Engineering, Buildings, Wastewater, Solidwaste, Traffic, Automotive, and Highway Maintenance. This Department included a total of 400 employees with a \$30-million budget. Introduced and initiated Maintenance Managements Systems in Wastewater, Solidwaste and Highway Maintenance operations.



Austen Drake, P.E.

Civil Engineer | Associate | Manager, Hilo Office

Mr. Drake is the Manager and Lead Civil Engineer in SSFM's Hilo Office. He is a Project Engineer responsible for planning and design for a wide variety of civil engineering projects on the Island of Hawaii and other geographic areas where SSFM currently provides planning and engineering services.

REPRESENTATIVE PROJECT EXPERIENCE

SSFM International

EDUCATION

B.S., Civil Engineering,
University of Texas at
Arlington, 2003

REGISTRATION

Hawaii, Civil
Engineering #C-13059,
2008

Texas, Professional
Engineer #100187, 2007

Project Engineer for the West Hawaii Civic Center project. This was a design-build project for a new Civic Center consisting of eight (8) office buildings and one (1) parking garage on the 7 acre parcel located at the corner of Kealakehe Parkway and Ane Keohokalole Parkway in Kailua-Kona Hawaii. Estimated construction cost \$52 million.

Māmalahoa Highway Bypass Road and Nāpō'opo'o Road Māmalahoa Highway Intersection Improvements. Project Manager. SSFM provided Civil Engineering services to revise, update, and repackage the previously approved Plans, Specifications and estimates (PS&E) for the portion of the Māmalahoa Highway Bypass from Halekii to Nāpō'opo'o, as well as the Nāpō'opo'o Intersection PS&E. The Māmalahoa Highway Bypass work included updating the topographic survey for construction previously performed, updating earthwork quantities, revising drainage details, adding an alternative pavement section for concrete, and adding additional improvements to accommodate property owners. The Nāpō'opo'o Intersection work included that above in addition to revising the intersection geometry to increase left turn storage. Estimated construction cost \$25.5 million.

Kapi'olani Street Extension, Lanikaula Street to Mohouli Street. Hilo, Hawaii. Project Manager. SSFM provided Environmental Documentation, Preliminary Planning and Design, and Final Design services. The Project consists of extending the existing Kapi'olani Street from Mohouli Street to Lanikaula Street. Project deliverables include an Environmental Assessment, Preliminary Engineering Reports and Plans, and Construction Drawings. Estimated construction cost \$13 million.

Keahuolu Phase 0 Roadway and Promenade Design. Kailua-Kona, Hawaii. Project Manager and Lead Civil Engineer. SSFM provided Environmental Documentation and Design services. Phase 0 of the project provides a new roadway, three new entrances to Kailua District Park, and a pedestrian and bike promenade. The improvements support the Kailua District Park and the Queen Lili'uokalani Trust Master Plans and include new pavements, raised sidewalks, shared use path, drainage improvements, intersection improvements, street lighting, landscaping, and new utility lines. Estimated construction cost \$5 million.

Kohala Ranch Community Association Pavement Assessment. Kohala, Hawaii. Project Manager/Project Engineer. SSFM performed a pavement inventory and provided pavement preservation plan recommendations. The Project consists of inventorying approximately 22 miles of roadway, identifying candidates for pavement preservation, evaluating treatment options and providing opinion of probable costs for various options. Estimated construction cost \$500,000



Jo-Anna Herkes

Senior Project Manager

Ms. Herkes is A Business Development Leader for Hawaii Island. She also serves as a Senior Project Manager on a wide cross section of projects for private corporations and public agencies. Ms. Herkes has over 35 years of professional experience in corporate management and fund raising, development of community relations and outreach programs, project liaison to community organizations, community leaders, neighborhood boards, business organizations, individual organizations and stakeholders.

SSFM International

AREAS OF SPECIAL COMPETENCE

Project Management

Community Relations and Outreach

Communications

REPRESENTATIVE PROJECT EXPERIENCE

Project Manager for Primary Corridor Bus Rapid Transit (BRT) FEIS Preliminary Engineering Design, Honolulu, Hawaii. Project included the preliminary engineering for the In-Town route over 13 miles of road in Honolulu. The total construction cost for this project is at \$356 million.

Community Outreach for Keaau-Pahoia Road Improvements project on the island of Hawaii. The State Department of Transportation (DOT), has proposed this project to address the heavy traffic congestion which currently occurs along the corridor between Keaau and Pahoia. Project included preparation of an Environmental Assessment report in compliance with NEPA and Title 11, Chapter 200, HRS for the widening and improvement of the existing highway. Length of the Highway study area approximately 10.5 miles.

Community Outreach for the Paia Bypass project on the island of Hawaii. The State Department of Transportation (DOT) in association with the Federal Highways Administration (FHWA), are proposing Highway Improvements and Alternate Road to serve the Paia community.

Project Trainer for the Emergency Response Plan, Department of Water, County of Kauai, Hawaii. This project involved the preparation of an Emergency Response Plan pursuant to the Public Health Security and Bioterrorism Preparedness and Response Act of 2002. The total project cost of \$142,875.

Project Manager for the Sandwich Isles Communications Fiber Optic Ductline project. This project involves the design and construction of approximately 325 miles of fiber optic ductlines connecting Hawaiian Homelands throughout the State. Major responsibility for plan approval and permitting process with State, County and Federal regulatory agencies is a essential and crucial component with meeting construction schedule. The total construction cost of this project is estimated at \$700 million.

Project Manager for the State of Hawai'i, Department of Education's Whole School Classroom Renovation for Hawai'i schools, including Kea'au Middle, Wai'akea High, Hilo Union, Hilo Intermediate, Haaheo Elementary, Lāupahoehoe High & Elementary, Honoka'a Elementary, and Kohala Middle. The projects typically involve interior and exterior painting; replacement of flooring, windows and doors; replacement of marker boards and tack boards; miscellaneous carpentry repairs; restoration of restrooms. \$17.7M



Renee Ishisaka, P.E., S.E., LEED AP

Structural & Civil Engineer | Associate

Ms. Ishisaka is an experienced structural & civil engineer with experience in a wide variety of both design and construction projects. Projects have involved reinforced, prestressed and post-tensioned concrete; structural steel; masonry; and timber construction. She has extensive experience with the following types of projects: Hospitals, Department of Defense projects, airport facilities, commercial/office buildings, residential buildings, educational facilities, and hotels.

SSFM International

REPRESENTATIVE PROJECT EXPERIENCE

EDUCATION

B.S., Civil Engineering,
University of Hawaii
at Manoa, Hawaii,
2005

M.S., Civil Engineering
(Structures),
University of Hawaii
at Manoa, Hawaii,
2007

REGISTRATION

Hawaii, Structural & Civil
Engineering #14567-S&C

Guam, Civil
Engineering, #2068

Guam, Structural
Engineering, #2107

LEED Accredited
Professional, USGBC,
2009

FHWA-NHI Safety
Inspection of In-Service
Bridges Certification,
2011

Construction Management and Construction Support Services for Hawaii Belt Road Rehabilitation of Umauma Stream Bridge. Hilo, Hawaii. Project Engineer/Project Inspector. SSFM provided construction management and support services to assist the Hawaii State Department of Transportation's Highway Division for this project which included but is not limited to construction of concrete piers and foundation, modifying of existing concrete abutments and wingwalls, replacement of steel girders and concrete bridge deck, and construction of concrete bridge railings, metal approach guardrails, and A.C. pavement approaches. Umauma bridge is a 110' tall steel girder and trestle bridge, constructed around 1912 and widened in the mid-1950s, and subject to historical requirements by the State Historic Preservation Division. Estimated construction cost \$35.8 million.

Construction Management and Construction Support Services for Hawai'i Belt Road Repairs to Umauma Bridge Steel Members. Hilo, Hawaii. Project Engineer. SSFM provided construction administrative services to assist the Hawaii State Department of Transportation's Highway Division in construction management and support services for this project which included repairs to various steel members for Umauma Stream Bridge towers due to corrosion damage. Umauma bridge is a 110' tall steel girder and trestle bridge, constructed in 1912 and widened in the mid-1950s, and subject to historical requirements by the State Historic Preservation Division. Repairs included replacing corroded rivets and members, repairing holes in steel members, repairing anchorages to the concrete foundations and strengthening existing angle members. \$3.7 million.

Kapi'olani Street Extension, Lanikaula Street to Mohouli Street. Hilo, Hawaii. Design Engineer. SSFM provided Environmental Documentation, Preliminary Planning and Design, and Final Design services. The Project consists of extending the existing Kapi'olani Street from Mohouli Street to Lanikaula Street. Project deliverables include an Environmental Assessment, Preliminary Engineering Reports and Plans, and Construction Drawings. Engineering services include design of new roadway section and existing intersection improvements, grading and drainage improvements, utility relocation, traffic signal systems, retaining walls, property/driveway tie-ins and concrete work such as curb, gutter, side walk and a bridge across Waiakea Stream. Estimated construction cost \$13 million.



SSFM International

EDUCATION

B.S., Aerospace Engineering, University of Southern California (May 2002)

REGISTRATION

Hawaii, Civil Engineering #13480-C

Certified Project Management Professional, 2007

Robyn Ito, P.E., PMP

Civil Engineer

Ms. Ito is currently a Project Engineer assigned to SSFM's Hilo Engineering Group. In this position, she currently performs planning and design for a wide variety of project management and civil engineering assignments.

REPRESENTATIVE PROJECT EXPERIENCE

Stadium TCLP Testing, Honolulu, Hawaii. Project Manager. Environmental services including collecting renovation-specific toxicity characteristic leaching procedure (TCLP) analysis of the projected waste stream for the metal roof decking at Aloha Stadium.

Puainako Street Widening, Hilo, Hawaii. Design Engineer. SSFM provided Planning and Environmental Documentation as well as Preliminary Engineering Services for the widening and extension of Puainako Street from Komohana Street to Kilauea Street. Services included Traffic Impact Analysis, Hydrology and Hydraulic Engineering, and Civil Engineering. Improvements include widening the existing two-lane Puainako Street to a four-lane divided roadway with landscaped median. The widened facility will include new bike lanes and raised sidewalks for pedestrian access. Estimated construction cost \$60 million.

Keahuolu Phase 0 Roadway and Promenade Design, Kailua-Kona, Hawaii. Design Engineer. SSFM provided Environmental Documentation and Design services. Phase 0 of the project provides a new roadway, three new entrances to Kailua District Park, and a pedestrian and bike promenade. The improvements support the Kailua District Park and the Queen Lili'uokalani Trust Master Plans and include new pavements, raised sidewalks, shared use path, drainage improvements, intersection improvements, street lighting, landscaping, and new utility lines. Estimated construction cost \$5 million.

Kamakaeha Avenue, Phase 1A, Kailua-Kona, Hawaii. Project Engineer. SSFM provided Subdivision processing and Design services. The Kamakaeha Avenue extension provides a new roadway to serve the main entrance of the new Kona Judiciary Complex. Improvements included new pavement, raised sidewalks, drainage improvements, intersection improvements, street lighting, landscaping, and utility lines. Estimated construction cost \$3.7 million

Queen Kaahumanu Highway Widening Phase 2, from Kealakehe Parkway to Keahole Airport Road, Kailua-Kona, Hawaii. Civil Project Engineer. The project includes engineering and construction services to widen Queen Kaahumanu Highway from the existing two (2) lanes to a four (4) lane divided highway. Estimated construction cost \$76 million.

Mamalaho Highway Drainage Improvements, Ka'u, Hawaii. Project Engineer. SSFM provided Environmental Documentation, Preliminary Planning and Design, and Final Design services. The Project consists of raising a section of the existing highway and installing large concrete box culverts to mitigate flooding problems that have caused previous road closures. Project deliverables include an Environmental Assessment, Preliminary Engineering Reports and Plans, and Construction Drawings. Estimated construction cost \$6 million.



Genevieve Runningwind

Project Coordinator

SSFM International

AREAS OF SPECIAL COMPETENCE

Project Coordination
Contract Management
Document and File Management Systems
Office Management

Ms. Runningwind brings over 20 years of professional administrative experience and serves as the Office Manager for the SSFM Hilo Office and is a Senior Project Coordinator for the Project Management and Guam Office groups for a wide variety of project management, construction management, planning, and engineering projects. In her role as Project Coordinator, she manages the documentation and file management for all project activities and performs the contract and financial management for each project. She performs research, data coordination, and compilation of information from source materials and documents for submission to Clients. She also prepares Fee Proposals, Notice to Consultants, Scopes of Work, Change Orders as well as reports, submittal packages, project schedules, or other documents as needed.

REPRESENTATIVE PROJECT EXPERIENCE

Hawaii Belt Road Rehabilitation of Umauma Stream Bridge. Hilo, Hawaii. Project Coordinator. SSFM provided Construction Management services for this project which included but is not limited to construction of concrete piers and foundation, modifying of existing concrete abutments and wing walls, adding steel girders and concrete deck widening along both sides of the existing bridge superstructure, and construction of concrete bridge railings, metal approach guardrails, and A.C. pavement overlay. Estimated construction cost \$30 million.

University of Hawai'i at Hilo, North Hawai'i Education and Research Center Phase 1, Honokaa, Hawaii. Project Coordinator. SSFM served as the Project and Construction Manager for the estimated \$3 million renovation of the old Honoka'a Hospital into a University outreach and research facility in Honoka'a, Hawai'i.

University of Hawai'i at Hilo, North Hawai'i Education and Research Center Phase 2. Honokaa, Hawaii. Project Coordinator. SSFM is the owner's representative in the construction of the second phase of this project. The project consists of the partial demolition of the existing Honoka'a Hospital and removal of a portion of the existing wood structure building; construction of a new two-story building and connecting bridge to the existing facility; and related site improvements and incidental work as required.

Central Oahu Regional Park Phase 2A/2B. Project Coordinator. Project involved the construction of softball and baseball fields, archery range, and professional level tennis complex for a 269,454 acre City and County Community Park in Waipio.

University of Hawai'i at Hilo CIP Renovation Projects, Hilo, Hawaii. Project Coordinator. SSFM is providing Construction Management services for various Capital Improvement Projects at the University.

Department of Education 2007 Whole School Classroom Renovation Projects for Haaheo Elementary, Hilo Union Elementary, Honoka'a Elementary, Waiakea High Schools, Kealakehe Elementary, Kealakehe Intermediate, and Kahakai Elementary Schools. Assistant Construction Manager/Inspector for the renovation project.



SSFM International

Corey M. Matsuoka, P.E., PMP, LEED AP

Lead Civil Engineer | Senior Principal

Mr. Matsuoka is the Manager of SSFM's Engineering Group, including structural engineers and civil engineers. He also serves as a Senior Project Manager responsible for the planning and design of architectural and engineering projects including the preparation of drawings, calculations, specifications, and cost estimates, and conducting special inspections and construction observation services. He has extensive experience in projects involving transportation, commercial/office buildings, residential buildings, educational facilities, site development and telecommunication projects.

EDUCATION

B.S., Civil Engineering,
University of California
at Los Angeles (1994)

M.S., Structural
Engineering, University
of Hawai'i (1997)

REGISTRATION

Hawaii, Civil
Engineering #10330-C
(2001)

Certified Project
Management
Professional, PMI, 2003

LEED Accredited
Professional, USBGC,
2006

REPRESENTATIVE PROJECT EXPERIENCE

Hawaii Volcanoes National Park - Crater Rim Drive, District of Kau, Island of Hawaii. Project Manager. The project included widening and pulverizing and repaving of 2.8 miles of the existing roadway. Some of the challenges on the project included the protection of historic roadway features, endangered species and archeological artifacts. Estimated construction cost \$13 million.

Hawaii National Parks Pavement Preservation project in various National Parks in Hawaii. Project Manager. The project included assessing pavement conditions and making pavement preservation recommendations for roadways and parking lots in Hawaii Volcanoes National Park, Haleakala National Park, USS Arizona Memorial, Kaloko-Honokohau National Historic Site, Pu'ukohola Heiau National Historic Site, and Pu'uhonua o Honaunau National Historic Park. Estimated construction cost \$5 million.

Saddle Road - West Side Task 15 Bid Package, Waikoloa, Hawaii. Principal-in-Charge. Project included a new 10 mile alignment of Hawaii State Route 200 / Saddle Road through State and Army land from Pohakuloa Training Area to Mamalahoa Highway. Estimated construction cost \$80 million.

Public Transit Bus Stop Project, Kauai, Hawai'i. Project Manager. SSFM provided professional engineering and planning services for the development of complete contract documents for the design of public forty seven transit bus stops. Each stop included the design of a shelter, ADA compliant concrete slab, bench, trash receptacle, bike rack and signage (as space allows). Estimated construction cost \$1,175,000.

Haleakala National Park Pipiwai Trail Improvement in Hana, Maui, Hawaii. Principal-in-charge. SSFM developed a 30% design for footbridge span penultimate crossing on the trail before Waimoku Falls, trail terminus, a 1,500 ft boardwalk and for state and country-approved signages and pavement markings and installed said designs to establish a safe crosswalk between the trail and Hana Highway. Estimated construction cost \$600,000.00.

Maipalaoa Bridge, Mai'ili, Honolulu, Hawaii. Civil Project Engineer. SSFM was responsible for preparing an environmental assessment, engineering design and construction drawings for the widening and replacement of Maipalaoa Bridge. This project was extended to include Maipalaoa Bridge and the area of Farrington Highway around Maipalaoa Bridge. Civil design involved the relocation of water and drainage lines/structures, roadway improvements and erosion control. Structural design involved the replacement of the Maipalaoa Bridge a pedestrian detour structure. Estimated construction cost \$13 million.



Cheryl D. Soon, Ph.D., FAICP

Transportation Practice Leader | Senior Planner

Ms. Cheryl Soon is a senior planner with extensive national and Hawaii experience in both public and private sectors. Cheryl has a track record for quality, timeliness, being on-budget, and repeatedly exceeding expectations. Her work has won several awards and she is distinguished as a Fellow in the American Institute of Certified Planners, the highest honor available for a professional planner.

REPRESENTATIVE PROJECT EXPERIENCE

SSFM International

EDUCATION

B.A., Colby College,
(1970)

Masters in City
Planning, Harvard
University (1975)

Ph.D. in Planning,
University of Hawaii
(2009)

REGISTRATION

Fellow, American
Institute of Certified
Planners

Kalaniana'ole Highway Improvements in Waimānalo, Phase 1, Olomana Golf Course to Vicinity of Poalima Street, Waimanalo, Honolulu, Hawaii. Planner. Roadway improvements along this 0.84 mile section includes: field investigations, coordination with various agencies, preparation of reports and various analysis, design and public informational meetings. Total estimated construction cost \$9.4M.

Keaau-Pahoa Road Improvements, Keaau to Pahoa, Hawaii. Project Planner and Manager for the. The Planning component of this project was designated by HDOT to be conducted under the guidelines of a context sensitive solutions process, one of the first for the State. Project also includes preparation of an Environmental Assessment report in compliance with NEPA and Title 11, Chapter 200, HRS for the widening and improvement of the existing highway. Length of the highway study area approximately 10.5 miles.

Feasibility Study for a New Mauka Road from Lihue to Hanamaulu on the Island of Kauai. Project Manager. Tasks included preparing sub area circulation analysis, functional classification study and alignment options.

Interstate Route H-1 Corridor Study, Island of Oahu. Project Manager. Identify and assess feasibility of future options to increase capacity, improve safety and provide for demands. Includes an assessment of parallel and connecting facilities.

Development of an Outreach and Education Program Plan, State of Hawaii, Department of Defense. Project Manager. Support to State of Hawaii in its consultation with national FirstNet system for 800 Mhz communications spectrum devoted to public safety. Work involves formation of a governance system, technical systems coordination to assemble assets data, outreach and education.

Honolulu Complete Streets project. Principal in Charge. Includes preparation of a Design Standards Manual, implementation of designs for up to twenty sites, training and outreach.

Hawaii County Complete Streets Program and Downtown Hilo Mobility Study. Project Manager. Includes preparation of a multi-modal plan for downtown Hilo with parking, circulation, transit, pedestrian, and bicycle elements. Also includes preparation of a program and manual to implement the County Complete Streets Policy. Stakeholder identification and engagement is a critical element to both parts of this study.



SSFM International

EDUCATION

B.S., Environmental Studies, Southern Oregon University (2000)

Certificate in Cultural Resource Management, Southern Oregon University (2000)

Master of Arts in Anthropology, University of Hawaii (2003)

REGISTRATION

American Planning Association, American Institute of Certified Planners #029129

Melissa May, AICP

Project Planner | Associate

Melissa May is SSFM's Deputy Manager for our Strategic Services Group and she is a senior planner with more than a decade of experience in community and environmental planning in Hawaii. She is passionate about place-making through community building and improvements to the built environment. Ms. May has worked on a wide variety of projects for both public and private sector clients, including long-range community planning, economic development, renewable energy, endangered species, electric utility projects, disaster planning, habitat creation, construction monitoring, municipal water supply, and water quality restoration projects. She is accustomed to assembling and overseeing teams to develop and execute effective marketing and engagement campaigns to achieve broad community support. Her training in anthropology and environmental science inform cultural and environmental sensitivity in her work. Ms. May's areas of interest include economic development, community planning, community engagement, natural disaster planning, and natural resource management.

REPRESENTATIVE PROJECT EXPERIENCE

Kauai General Plan Update. Senior Planner. Currently working with the County of Kauai as Project Manager to develop the strategy and vision for the next update of the Kaua'i General Plan, a forward thinking policy document that guides the future of the island. This two-year effort involves extensive stakeholder involvement and community outreach island wide. The public engagement program utilizes innovative methods of digital engagement, as well as traditional outreach and engagement.

Downtown Hilo Multimodal Master Plan. Senior Planner. Ms. White contributed to the development and execution of the stakeholder engagement program and is currently acting as the lead writer on the Plan. The DHMMP is aimed at identifying implementing actions to make Downtown Hilo more walkable, bike-friendly, and vibrant. Ms. White coordinated a stakeholder advisory group, oversaw seven focus groups with key stakeholders, and planned and executed a community wide meeting with 200 participants.

Lihue Community Plan. Senior Planner. Worked closely with the County of Kauai to develop a 20-year plan and vision for the Lihue District of the Island of Kauai. Facilitated community participation and input through public events, presentations, and Community Working Group meetings. Developed and maintained a project website, collateral, and presentations. Served as lead writer on the Community Plan, procured and supervised graphic design services on the final product.

State of Hawaii Natural Disaster Economic Recovery Strategy. Project Manager. Led a team in preparing a strategy to improve small business continuity planning statewide. The plan was developed with extensive stakeholder involvement, including a series of small business focus groups, an Advisory Group comprised of disaster management agencies and experts, and a statewide survey of small businesses. The scope included pre-disaster planning through to post-disaster recovery for small businesses, and recommended measures to be taken by public and private sector entities to improve small business resilience.



Oliver Gaskell, AICP
Project Planner

Oliver has over 5 years of experience providing community, transportation and climate and resilience planning in Hawaii, on the U.S. mainland, and across the Pacific. He is a systems thinker who is passionate about reaching planning solutions informed by robust public engagement supported by data analysis. He has worked with a wide range of clients from small rural communities to large federal agencies. Through this experience he has developed skills in geographic information systems, technical writing, graphic design, and virtual and face-to-face meeting facilitation.

SSFM International

EDUCATION

Master of Community and Regional Planning, University Oregon

Master of Nonprofit Management, University Oregon

Bachelor of Spanish Studies and Geography, Lancaster University

REGISTRATION

American Planning Association, American Institute of Certified Planners #34116

REPRESENTATIVE PROJECT EXPERIENCE

North Shore Sustainable Communities Plan, Oahu, Hawaii. Planner. SSFM provided a five-year comprehensive review of the 2011 North Shore Sustainable Communities Plan. The scope of services consisted of conducting a scientific survey of a representative cross-section of the region's community including residents, employees and visitors to the region, to ascertain concerns, trends, and aspirations of its citizens and visitors, the organization, implementation, and documentation of the community involvement process, the establishment of a practical and ongoing method of measuring the progress of the implementation of the existing Plan's vision, policies and guidelines, organizing and facilitating the establishment of citizens' planning advisory committee, preparation of various reports and recommendations.

Keeaumoku Complete Streets, Honolulu, Oahu, Hawaii. Planner. Helped with the redesign of Keeaumoku Street between Wilder Ave and Kapiolani Blvd to include all modes of travel including protected bike lanes and improved pedestrian safety. Responsible for design input and community outreach. Outreach conducted throughout COVID-19 including Online Public Meetings (utilizing Miro software and Zoom), multiple online design charrettes, and COVID safe outreach to businesses and users of Keeaumoku Street.

New Facility for the Hawaii Emergency Management Agency at the First Responder Technology Campus, Mililani, Oahu, Hawaii. Planner. The project was for a new approximately 100,000 SF facility for the Hawaii Emergency Management Agency (HI-EMA) to be located at the proposed First Responder Technology Campus (FRTC) located in Mililani on the island of Oahu.

Hoala Trail Pavement Markings Design Study, Waipahu, Oahu, Hawaii. Planner. Conducted design study to develop and site pavement markings along the Hoala Trail at the Koa Ridge development in Waipahu. Developed potential designs and researched best practices for pavement marking locations.

Lower Honoapiilani Highway Complete Streets, Lahaina, Maui, Hawaii. Planner. SSFM provided civil, structural and traffic engineering design services, and environmental permitting for the assessment of Lower Honoapiilani Highway complete streets related requirements and needs. SSFM conducted outreach with residents and stakeholders and provided final recommendation on design parameters for the project.



Jennifer Scheffel

Senior Environmental Planner

Ms. Scheffel has 15 years of experience in environmental planning and project management. Experience includes public involvement, environmental documentation, and permitting for the energy sector (including renewable energy), transportation and transit, and Department of Defense projects (Air Force, Navy, and Marines) in Hawaii, Guam, the Commonwealth of Northern Mariana Islands, and the US mainland. Also experienced with environmental compliance during design, preconstruction, construction, and post-construction.

SSFM International

REPRESENTATIVE PROJECT EXPERIENCE

EDUCATION

B.S., Biology, Southwest Texas State University (1998)

Masters of Applied Geography, New Mexico State University (2001)

TRAINING & CONTINUING EDUCATION

- NEPA and HRS 343 Environmental Reviews
- US Army Corps of Engineers Wetland Delineation
- Wetland Plant Identification
- US Army Corps of Engineers Section 404 Nationwide Permitting

Kahekili Highway Improvements Environmental Assessment (EA). Senior Environmental Planner. Preparation of a Hawaii Revised Statutes (HRS) 343 and National Environmental Policy Act (NEPA) compliant EA for improvements along approximately 3.3 miles of Kahekili Highway from Haiku Road to the intersection with Kamehameha Highway on Oahu. The project purpose is to reduce congestion, increase roadway capacity, improve highway safety, and modernize the existing facility, which is heavily congested during its peak hours.

Paia Relief Route Project Environmental Impact Statement (EIS). Senior Environmental Planner. Preparation of a HRS 343 and NEPA-compliant EIS for a new road that would improve safety and provide traffic relief to the town of Paia, Maui by providing a bypass of the community for through traffic while enhancing conditions in Paia for visitors to the downtown area. The project includes an approximately 6.5-mile-long study area from the intersection of Hana Highway with Haleakala Highway, through the Town of Paia to west of Maliko Gulch.

Wailuku River Hydroelectric Plants Long-term Water Lease and Waiiau Hydro Plant Repowering EA. Senior Environmental Planner. Preparation of a HRS 343-compliant EA to support Hawaii Electric Light Company's (HELCO) long-term water lease application to the Board of Land and Natural Resources (BLNR). In addition to the long-term water lease, HELCO proposes to repower the Waiiau Hydro Plant in Hilo, Hawaii. Other tasks include managing sub-consultants conducting Socioeconomic Impact Assessment, Cultural Impact Assessment, and Stream Habitat Assessment.

Lower Paia Beach Park Parking Lot Design and Permitting. Senior Environmental Planner. Preparation of an Exemption Declaration under HRS 343 for paving and striping existing gravel parking lot, as well as adding lighting. Other tasks include preparation of a Special Management Area (SMA) Assessment application, Shoreline Setback Assessment application, and managing sub-consultant conducting Archaeological Inventory Survey.

Guam and CNMI Military Relocation (2012 Roadmap Adjustments) Supplemental EIS/OEIS. Deputy Project Manager. Preparation of a supplemental EIS under NEPA for the U.S. Marine relocation from Okinawa, Japan to Guam. Project included analysis of impacts associated with siting of a main cantonment/family housing area and a live-fire training range complex. Tasks included management of project scoping, Draft EIS, public hearings, Final EIS, Record of Decision, and Mitigation and Monitoring Plan.



Lulu Chun

Project Planner

Ms. Chun is currently a Planner in the Strategic Services Group. In this position, she currently performs mapping or graphic design using Adobe suites, ArcGIS, Sketchup or similar computer graphics to support work on transportation planning, urban design, and traffic engineering projects.

REPRESENTATIVE PROJECT EXPERIENCE

SSFM International

EDUCATION

Masters Degree, Urban & Regional Planning, University of Hawai'i at Manoa, Honolulu, Hawai'i

Bachelor of Landscape Architecture, Beijing Forestry University, Beijing, China

Kalaheo Avenue and Kailua Road Intersection Improvements. Planner. Provided maps and rendering for the proposed intersection improvements. Project includes the full design of interim improvements to mitigate vehicular congestion and multi-modal conflicts. Traffic study will include alternative analysis including roundabout construction including public and stakeholder outreach.

Complete Streets Implementation Study. Planner. Work included mapping and providing graphic package to illustrate existing conditions and convey planning concepts. SSFM is the prime consultant, working with a team of local and national experts, to assist the City in the implementation of the goals and requirements of the Complete Streets Ordinance. This project includes the completion of several inter-related tasks. Primary to this effort was the creation of the Honolulu Complete Streets Design Manual which was created with the intent of superseding dated guidelines.

Hawai'i County Complete Streets Program and Downtown Hilo Mobility Study. Planner. Work included mapping and providing graphic package to illustrate existing conditions and convey planning concepts. The Downtown Hilo Multi-modal Master Plan will establish a community-driven Master Plan for policies, programs, and projects which will improve overall mobility throughout the Downtown area and provide multi-modal connections to high activity locations.

Multi-Modal Bike Plan, Honolulu, Oahu, Hawai'i. Planner. SSFM assisted the City and County of Honolulu in defining bicycling facility projects that will integrate multi-modal access and connections to Honolulu rail stations and other transit facilities. Project included the creation of a Protected Bike Lane Network plan to be carried through by the City and developers.

Kalaniana'ole Highway Improvements, Waimanalo, Phase 1. Planner. Field investigations, preparation of pedestrian origin and destination study, preparation of graphic package to support traffic analysis resulting in traffic impact assessment report, transportation management plan and traffic signal timing for the intersection improvements at Kalaniana'ole Highway and Poalima Street in Waimanalo, Oahu. The design incorporates a new roadway section that will provide eased vehicle congestion while also including dedicated pedestrian and bicycle facilities, and an equestrian path. Estimated construction costs \$12.0 million.

Nuuanu/Liliha Complete Streets Project, Honolulu, Hawaii. SSFM assisted the City and County of Honolulu to develop multimodal solutions for Nuuanu Avenue and Liliha Street in Honolulu. Work included mapping and providing graphic package to illustrate existing conditions and convey planning concepts. Additional tasks included preparation for and coordination of public outreach activities.

County of Hawaii
Housing and Community Development
STATEMENT OF QUALIFICATIONS
Fiscal Year 2023-2024

#5: List of Recent Projects



OH.4) COMMUNITY PLANNING
(Environmental Assessment)

Environmental Documentation Experience, including EA & EIS

The following is an abbreviated list of representative projects where SSFM was the Prime Consultant responsible for the environmental assessment or environmental impact statement preparation. This listing reflects SSFM's ability to successfully manage both small and larger complex projects which require compliance with Chapter 343, Hawaii Revised Statutes {Environmental Assessments and Environmental Impact Statements}.

EA / EIS PROJECT EXPERIENCE



Lahaina Bypass Southern Terminus Relocation Lahaina, Maui, Hawaii

SSFM provided civil engineering and transportation planning services to support the efforts to complete an Environmental Assessment for the proposed realignment of a section of the Lahaina Bypass. A Traffic Impact Analysis Report was prepared to analyze the traffic impacts of the proposed project in the planning years 2020 and 2015 and recommended conceptual designs for five intersections.

Estimated Cost: \$94,504 (fees)



Haleiwa Mixed Use Parcel Tax Map Key 6-2-005: 002 Haleiwa, Oahu, Hawaii

SSFM prepared the environmental assessment, traffic impact analysis report, and traffic impact assessment and evaluation for this project involving the development of a 7.5-acre parcel, identified as Tax Map Key (1) 6-2-05: 002 located in Hale'iwa on the North Shore of O'ahu. Work also included preparation of concept level plans for water and site drainage and preparation of entitlements for rezoning and state land use district boundary amendment.

Cost: \$85,000 (fees)



Waiau Hydro Repowering Project Environmental Assessment Hilo, Hawaii

SSFM assisted with the application and processing of the application for one (1) water license for two (2) existing hydropower facilities issued in accordance with Chapter 171-58HRS, which required coordination and consultation with both the Department of Land and Natural Resources and the Department of Hawaiian Home Lands. Prepared an Environmental Assessment (EA) in accordance with Chapter 343 HRS as required in the application for the water license with DLNR.

Cost: \$288,000 (fees)

EA / EIS PROJECT EXPERIENCE



**Kalaheo Avenue and Kailua Road Intersection Improvements
Kailua, Oahu, Hawaii**

SSFM provided civil engineering and environmental compliance services for the redesign of the intersection, known as the Kalapawai Triangle Park, to function similar to a roundabout intersection, with new sidewalks, raised medians, new berms and curbs, new asphalt pavement and new sign posts. SSFM completed the environmental documentation requirements to comply with HRS Chapter 343 and Chapter 6E for historic and archaeological approval from the State Historic Preservation Division. The scope also included public meetings and community outreach.

Estimated Construction Cost: \$460,000



Joint Development for Affordable Rental Housing and Juvenile Services Center/Shelter, Alder Street, Honolulu, Hawaii

SSFM provided project conceptualization, intra-agency facilitation, environmental documentation and community outreach for the development of the first mixed used project on State owned land within the City's TOD. The project is proposed to be a 266,000 SF/19-Story Mixed Use Development that addressed the community's need for affordable rental housing and a facility for juvenile services and a shelter for children at-risk. This urban high-density solution epitomizes the type of development promoted to support TOD initiatives and transforms underutilized State land assets into a vibrant development much needed by the community.

Estimated Construction Cost: \$196.3 million (preliminary budget)



**Kiewit Precast Yard
Kalaeloa, Kapolei, Hawaii**

SSFM prepared an Environmental Assessment (EA) to comply with the Hawaii Revised Statutes (HRS) and Title 11, Chapter 200 of the Hawai'i Administrative Rules (HAR) for Kiewit's temporary use of a 34-acre parcel to serve as a precast yard to fabricate concrete elements for both the West Oahu/Farrington Highway Guideway and the Kamehameha Guideway Design-Build Contract segments of the Honolulu High-Capacity Transit Corridor Project.



SSFM also prepared a Traffic Impact Analysis Report. The study area included Kalaeloa Boulevard between Malakole Street and interstate H-1. Three existing intersections with Kalaeloa Boulevard were studied: Opakapaka Street, Lauwiliwili Street and Kapolei Parkway.

Estimated Cost: \$79,900 (fees)

EA / EIS PROJECT EXPERIENCE



Kapi'olani Street Extension, Lanikāula Street to Mohouli Street Hilo, Hawaii

SSFM provided planning and design services for the extension of Kapi'olani Street from Lanikā ula Street to Mohouli Street in Hilo, Hawaii, including preparation of the environmental assessment, planning, and preliminary and final engineering plans and reports.

Estimated construction cost \$12.0 million



Environmental Assessment (EA) for West Kapolei Regional Drainage System, Kapolei, Hawaii

SSFM prepared and processed an Environmental Assessment (EA) for Kapolei West Expansion Area, Kapolei Harbor Side Center, and Makaiwa Hills. This EA purpose is to disclose the results of technical studies and overall mitigations currently associated with the entire Western Kapolei Regional Drainage System project. The information in this EA will be used as supplement the applications for SMA and Shoreline Setback Variance (SSV) approvals for applicable sections of the Regional Drainage System.

Client Contact: Mr. Steve Kelly | (808) 674-3289

Estimated Cost: \$52,000 (fees)



Barbers Point Harbor Acquisition Environmental Assessment Kalaeloa, Kapolei, HI, 96707

SSFM prepared an Environmental Assessment and Finding of No Significant Impact (FONSI) for the State to acquire lands adjacent to Kalaeloa Barbers Point Harbor.

The State of Hawai'i Department of Transportation, Harbors Division (DOT-HAR), proposed to acquire a 54- acre parcel of land in Campbell Industrial Park for operational and ancillary uses associated with Kalaeloa Barbers Point Harbor. The parcel is intended to support long-term development of the harbor and to ensure that sufficient area for commercial harbor facilities on O'ahu is available.

Client Contact: Mr. Dean Watase | (808) 587-1883

Estimated Cost: \$54,800 (fees)

EA / EIS PROJECT EXPERIENCE



**Kalepa Moto-Cross Track, Contract 7734
Kalepa, Kaua'i, Hawaii**

SSFM was responsible for the planning and engineering for a new 18 acre motocross facility in Kalepa on the Island of Kauai. The proposed recreational motocross park will be located on an approximately 18-acre parcel of land identified as Tax Map Key (TMK) (4) 3-9-002: 036. The proposed park is located off Maalo Road in the Wailua Ahupua'a at Kālepa, in the Līhu'e District on the Island of Kaua'i. The site is located within the greater 6,700-acre Kālepa Agricultural Project and is approximately 380-feet above mean sea level, and is bound to the east by Wailua Falls Road (Ma'alo Road), to the south by a cane haul road on Grove Farm property and to the west and north by undeveloped agricultural lands, which are currently being used as cattle and horse pasturage.

Services included preparation of an environmental assessment (EA), entitlement, topographic survey, NPDES permit application, and technical analysis and alternatives evaluation.



Kahekili Northbound at Ahuimanu Road

**Kahekili Highway Improvements
Haiku Road to Kamehameha Highway
District of Koolau, Island of Oahu**

SSFM is providing transportation project planning and preliminary engineering services for the re-evaluation of the 1990 FEIS for the purpose of pursuing and completing the last segment identified in the 1990 FEIS.

This FEIS re-evaluation will include the project planning and preliminary engineering analysis that includes alternatives analysis for the entire corridor from Likelike Highway to Kamehameha Highway with emphasis on the segment from Haiku Road to Kamehameha Highway.

An extensive public and stakeholder coordination effort will be required since any proposed projects may have significant social and economic impacts due to the various uses of Kahekili Highway by its users. Several communities and businesses on the windward side of the island utilize this corridor as a pass through highway while the local communities abutting the corridor use the highway as a local road. The purpose of this coordination effort will be for the comprehensive consideration of the public and stakeholders interests and priorities during this reevaluation process and in the outcome.

The project planning work includes the analysis of consistency and coordination with relevant planning studies and programs, and the transportation forecast modeling of the regional roadway network. The preliminary engineering work includes the traffic engineering analysis on the proposed alternatives. The engineering analysis work will include preliminary design, right-of-way assessment, and cost estimation. The alternative analysis will also apply methods to consider the federal requirements and policies; HDOT requirements and policies; all modes of transportation, stakeholders interests and priorities; and social, economic and environmental impacts.



Kahekili & Hui Iwa North Intersection



Kahekili Northbound Approach at Ahaolelo

EA / EIS PROJECT EXPERIENCE



**Clarence T.C. Ching Athletics Facility
University of Hawaii at Manoa
Honolulu, Hawaii**

SSFM was contracted to prepare and process an environmental assessment pursuant to Chapter 343, HRS and Title 11, Chapter 200, HAR for the new athletics facility located on the Makai Campus of UH Mānoa. SSFM conducted the necessary studies for the environmental assessment including; gathering and compiling research for asbestos, lead and arsenic sampling, traffic impact assessment and coordination with the State Historic Preservation Division. Estimated construction cost \$10.0 million.



**West Oahu / Farrington Highway Guideway for the Honolulu High-Capacity Transit Corridor Project
Island of Oahu, Hawaii**

The SSFM Planning Group is responsible for environmental compliance of this segment of the guideway, the first segment of the Honolulu High Capacity Transit Corridor (HHCTC) Project.

Services involved preparing a Design Environmental Compliance Plan and review of all engineering submittals for conformity with the HHCTCP FEIS and ROD and historic preservation memorandum of agreement (MOA).

A key task was the preparation of Environmental Constraint Maps. This was a geo-referenced database of several hundred mitigation and permit conditions using ESRI's GIS platforms, ArcReader and ArcMap. These ECP maps were a tool that enhanced design engineers and reviewers to communicate with each other, indentifying risks and mitigation conditions. The user-friendly format allowed users to visualize mitigation requirements as they would appear in the field and then drill down to original source and reference documents.

SSFM is also responsible for all of the at-grade civil engineering, structural engineering, and permit approvals for this segment of rail alignment which is being undertaken as a Design-Build

This West O'ahu / Farrington Highway Guideway Project is the first segment of the Honolulu High Capacity Transit Corridor Project. The guideway alignment is within existing roadway right-of-way whenever possible to minimize impacts on private properties. The project includes the design and construct of approximately 7 miles of guideway, including the associated roadway modifications, utility relocations, and other infrastructure from the East Kapolei Station, along North--South Road, across the Ho'opili development, and along Farrington Highway to a point just east of the Pearl Highlands Station on Kamehameha Highway.

Design services are expected to be completed in 2011 and construction in 2013. Construction cost \$483 million

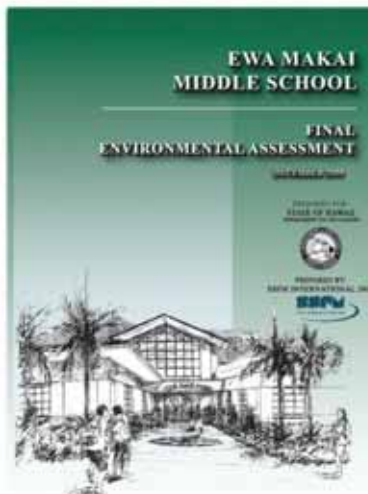
EA / EIS PROJECT EXPERIENCE



Replacement of Maipalaoa Bridge, Farrington Highway Oahu, Hawaii; Federal Aid Project No. BR-093-1(21)

SSFM was the Prime Consultant responsible for the planning and design of the replacement of the existing Maipalaoa Bridge in Waianae. An Environmental Assessment for the project was prepared and discretionary approvals including a Special Management Area Use permit, Department of the Army permit, Stream Channel Alteration Permit and Conservation District Use approval will be procured. The proposed replacement bridge will be a four-lane bridge about 78 feet wide by 112 feet long.

Construction Cost: \$14.4 million



'Ewa Makai Middle School 'Ewa, O'ahu, Hawaii'

The State of Hawai'i, Department of Education is constructing the new 'Ewa Makai Middle School in the Leeward District. The school was designed for sustainability and to meet or exceed the Leadership in Energy and Environmental Design (LEED) Silver Certification rating. The single story school design allows for flexible and sustainable classroom uses within approximately 150,000 square feet of floor area. SSFM was responsible for the preparation of an Environmental Assessment in conformance with State regulatory requirements. Work tasks involved managing sub-consultants to prepare necessary technical studies, including a Traffic Impact Analysis Report and Phase II Environmental Site Assessment.



Design and Engineering Services for FY96 MCON P-497, Extend Ocean Outfall at the Fort Kamehameha Wastewater Treatment Plant, Pearl Harbor, Hawaii

SSFM was the Prime Consultant responsible for the project management, engineering, trenchless pipeline design, and preparation of the environmental impact statement (EIS). The project involves the design of a new sewer outfall 2.4 miles (12,792 feet) long inclusive of a 656 feet long multi-port diffuser at a depth of -150 feet for the Navy's Pearl Harbor Public Work Center, Fort Kamehameha Wastewater Treatment Plant.

The EIS for the Ft. Kamehameha Outfall was developed according to National Environmental Protection Act (NEPA). Since this project will occur in the environmentally sensitive shoreline area, extensive studies were conducted to assess the possible impacts and to determine mitigation measures as required. About 11 separate studies were conducted which included feasibility studies for alternative effluent disposal methods; geotechnical evaluation; study on birds in the area; survey on ocean activities; dredging turbidity investigations; effluent plume modeling; study on water quality and marine community structure; biotic and biological (including endangered species) assessments in the area; unexploded ordnance (UXO) assessment; and far field water quality studies.

EA / EIS PROJECT EXPERIENCE



Kapaa-Kealia Bike and Pedestrian Path
Kapaa, Kauai, Hawaii
Department of Public Works, County of Kaua'i
Planning Services: Master Planning, Environmental Assessment, SMA Permit, SSV, CDUA

This Federally funded project involves the construction of a multi-use path along an approximately 4.3-mile stretch of shoreline from Kapaa to Kealia. SSFM was responsible for the overall project management and implementation of this project which includes developing a master plan for the path and associated recreational amenities, preparing and processing an Environmental Assessment, and obtaining SMA, Shoreline Setback Variance, and CDUA land use permits. The Master Plan development included inventory of shoreline conditions, conducting several community workshops for development of path alternatives and amenities, and developing plans and perspective drawings. Preparation of the EA met both Federal and State requirements along with conducting technical analysis, public and agency consultation, and report preparation and processing. Additional Federal requirements included conducting Section 106 consultation with Native Hawaiian organizations, the Kauai/Niihau Islands Burial Council, and the SHPD. Other Federal compliance included Section 7 consultation efforts with FWS, Executive Order (EO) 11988 on floodplains, EO 11990 for wetlands, and Coastal Zone Management Act.



State Civil Defense Diamond Head Radio Master Plan
Honolulu, Oahu, Hawaii
State Department of Defense, Civil Defense
Planning Services: Environmental Assessment, Master Planning, SMA Permit, CDUA, Special District Permits

SSFM provided Planning services including preparation of a Master Plan, Environmental Assessment and procurement of discretionary land use permits for State Civil Defense radio antennas along the rim of Diamond Head Crater.

The State Civil Defense, Department of Defense is consolidating the radio antennas presently located along the rim of Diamond Head Crater to a new site. User groups of these antennas include many Federal (FAA, FBI, DOD), State (Civil Defense, DOT, etc.), and City agencies. SSFM was responsible for the overall project management of this project which included development of a master plan, Environmental Assessment, and discretionary land use permits. Master Plan development includes inventory of Diamond Head Crater, holding meetings with radio users, conducting community meetings on the development of alternatives for consolidation of communication equipment and radio antennas, developing plans and perspective drawings, and GIS data base development. Discretionary land use permits included a Conservation District Use Permit, Special Management Area Use Permit, and Special District Permits.

EA / EIS PROJECT EXPERIENCE



Waianae High School Media Center
Waianae, Oahu, Hawaii
Department of Accounting & General Services, State of Hawai'i
Planning Services: Environmental Assessment, SMA Permit

SSFM was responsible for preparing and processing an Environmental Assessment and SMA Permit with Waivers with the City Council. The State DAGS proposed to construct a new state-of-the-art Media Center building on the Waianae High School campus. This building will have about 3,500 square feet of space to support the school's award winning media program which includes courses for production of yearbooks, newspapers, video production, radio and television broadcasting, and community newspapers. Due to lapsing funds, the EA and SMA permit were successfully completed on an accelerated schedule, and were one of the quickest approvals obtained for DAGS projects.



U.S. Department of Agriculture Pacific Basin Agricultural Research Center
Hilo, Hawaii, Hawaii
U.S. Department of Agriculture

The USDA Agricultural Research Service's Pacific Basin Agricultural Research Center (PBARC) is proposing a new research complex to allow for the consolidation of research programs statewide and expansion of new research programs. The PBARC complex includes 122,575 sf of floor area for main laboratory and office building, insectary, quarantine and greenhouse facility. The project also includes a USDA Forestry Service complex on 5 acres having 30,200 sf of floor area for office, laboratory, field support building, head house, and shade house. SSFM is responsible for the management, preparation, and processing of an environmental assessment meeting both Federal and State requirements for the entire project. Project team includes several subconsultants to address specific technical areas. Work included conducting technical analysis, public and agency consultation, and report preparation and processing. Managed and conducted Section 106 consultation on the Island of Hawaii for the USDA ARS. Section 106 efforts included consultation with Native Hawaiian organizations, consultation with the island Burial Council, and the SHPD. Compliance with other Federal regulations included Section 7 consultation efforts with FWS, and compliance with Executive Order (EO) 11988 on floodplains, EO 11990 for wetlands, and Coastal Zone Management Act.



Keokea Agricultural Lots, Unit 1
Keokea, Maui, Hawaii
State Department of Hawaiian Home Lands

Prepared an Environmental Assessment for this Agricultural subdivision consisting of about 71-2 acre lots with 13,650 LF of interior roads with drainage system, waterlines, water laterals, 11,000 LF of offsite water line, reservoir intersection improvements with a state road, irrigation system with reservoirs, OH electric and telephone.

EA / EIS PROJECT EXPERIENCE



**Kalapana Road Realignment And Resurfacing
Hilo, Hawaii, Hawaii**

The County of Hawaii, Department of Public Works is proposing to realign three sections of Kapoho-Kalapana Beach Road (Highway 137) due to coastal erosion undermining the roadway and wave inundation during periods of high surf. SSFM was responsible for the management, preparation, and processing of an environmental assessment for the project. Work included conducting technical analysis, public and agency consultation, and report preparation and processing. Meetings were held with property owners affected by the project to address their concerns and minimize frontage being lost. Other consultation efforts included a public informational meeting on the project. Land use permits for this project included preparation and processing of a SMA permit.



**Waihee Elementary School Playfield Site Assessment Study
Waihee, Maui, Hawaii
State Department of Accounting & General Services**

Prime Consultant responsible for the preparation of three alternative plans to build a new \$3.5 million playfield above the existing school grounds on sloping terrain. A topographical, archaeological, and soils survey was needed. Work included preparation of an EA/FONSI, and coordination with County of obtaining necessary land use approvals (State Special Use Permit).



**Sandwich Isles Communications, Inc. Rural Telecommunication
Lines, Statewide**

Sandwich Isles Communications, through a USDA Rural Utilities Service loan program, is installing over 600 miles of underground fiber optic duct lines within State and County roadways to connect and serve State DHHL homestead properties statewide. SSFM provided project management and administration for the simultaneous preparation and processing of Environmental Assessments (EA) for each county and prepared construction plans and specifications for the fiber optic duct lines. The SSFM Project team included several subconsultants and planning firms from other islands. Work on the EA's included conducting technical analysis, public and agency consultation, and report preparation and processing. Community consultations included presentations at several neighborhood boards on the Island of Oahu. SSFM managed and conducted Section 106 consultation for every county for the USDA Rural Utilities Service. The successful completion of this statewide effort resulted in the execution of Memorandum of Agreements for every island. Section 106 consultation efforts included consultation with Native Hawaiian organizations from each island, hearings and consultation with each island Burial Council, and the SHPD. SSFM also obtained SMA exemptions from various County Planning Departments for underground fiber optic duct lines, including clearance from other discretionary permits such as Conservation District Use Permit, shoreline setback variance, and COE permit.

EA / EIS PROJECT EXPERIENCE



Molokai Water System Phase IV Project
Hoolehua, Molokai, Hawaii
Department of Hawaiian Home Lands
Planning Services: Environmental Assessment

Provided planning services for preparation of a State Environmental Assessment for the replacement of existing water lines, and new fire hydrants and service laterals. This \$1.2 million project was to allow the development of homestead lots, and to ensure continued service of potable water to residents of the Palaau-Hoolehua Homestead area.



Waianae High School Eight-Classroom Building
Waianae, Oahu, Hawai'i
Planning Services: Environmental Assessment, SMA Permit, SSV, LUO Waiver

SSFM International prepared and processed an EA meeting State requirements and conducted technical analysis, public and agency consultation, and report preparation and processing. Consultation efforts included presentation before the Waianae Neighborhood Board. Planning services also included preparation and processing of a Special Management Area Use Permit, Shoreline Setback Variance, and Land Use Ordinance Waivers.



Kokoiki 0.10 MG Concrete Reservoir Project
Hawi, North Kohala, Hawaii
Department of Water Supply, County of Hawaii

Project involved the acquisition of land, and construction of a new concrete 0.10 MG water tank and appurtenances, to minimize water pressure limitations currently experienced by Department of Water Supply customers in the Hawi community. The preparation of the Environmental Assessment was completed in approximately six months allowing the Department of Water Supply to proceed with the \$300,000 project.



Pahala 0.50 MG Concrete Reservoir Project
Pahala, Kau, Hawaii
Department of Water Supply, County of Hawai'i
Planning Services: Environmental Assessment

SSFM prepared the Environmental Assessment for the proposed demolition and removal of a 0.50 MG steel water tank and construction of a new concrete 0.50 MG water tank. SSFM prepared the Environmental Assessment for this project in approximately six months.

EA / EIS PROJECT EXPERIENCE



Mohouli Flood Channel Environmental Assessment
Hilo, Hawaii
County of Hawai'i, Department of Public Works, Hilo, Hawai'i
Planning Services: Environmental Assessment

SSFM has prepared an Environmental Assessment for the County of Hawai'i, Department of Public Works (DPW), Engineering Division. The County intends to acquire lands for an existing flood channel and basin serving the Mohouli Housing Project located in the city of Hilo on the Island of Hawai'i. This project involves the acquisition of private properties and easements that presently serve as an unlined drainageway and detentions area for storm water runoff from the Mohouli Housing Project.



New 8-Classroom Building at Waianae High School
Waianae, Oahu, Hawaii
Design Partners, Inc., Honolulu, HI

SSFM International prepared and processed an EA meeting State requirements and conducted technical analysis, public and agency consultation, and report preparation and processing. Consultation efforts included presentation before the Waianae Neighborhood Board. Processing of discretionary land use permits which included a Special Management Area Use Permit and Waivers from the City's zoning code.

The project consists of developing a new single-story building complex providing eight (8) additional classrooms and accessory facilities for both teachers and students. This project also involves modifications to the existing parking lot, and providing additional paved parking stalls in another area of the campus. Other accessory improvements include demolishing two existing portables situated on the site, and creating a fire access lane to provide access to the makai (shoreline) area of the campus.



Kulaimano Well Development, Phase 1
Pepeekeo, Hawaii
County of Hawaii, Department of Water Supply
Planning Services: Environmental Assessment

SSFM prepared and processed an environmental assessment (EA) in accordance with State environmental requirements. The EA served as a NEPA-like document to meet DWSRF requirements. A "Finding of No Significant Impact" (FONSI) from the County accepting agency was pursued. This project involves the drilling, testing, and development of a new well on a 1-acre parcel of land. Future phases would include development of a new concrete 0.5 MG water tank and appurtenances. The purpose of this well is to replace the existing surface water source, and the new reservoir will increase the storage capacity of the County's Pepe'ekeo water system. This project will improve the system's water source, service and reliability to residents of this community.

EA / EIS PROJECT EXPERIENCE



**Kilauea Elementary School Cafeteria
Kilauea, Kauai, Hawaii**

The KES campus is a historical site with several buildings designated as “historical” buildings. The project included construction of a new cafeteria building and accessories providing necessary facility improvements serving both students and faculty. This project also consisted of relocating the existing historical cafeteria to an open undeveloped site within the campus. Other accessory improvements included additional parking stalls and a new service road with loading area to provide operational access to the new cafeteria. SSFM provided professional planning services for the development of a new cafeteria, relocation of the existing cafeteria building, and implementation of accessory improvements at Kilauea Elementary School. The planning work included an Environmental Assessment, consultation with the State Historical Preservation Division and the Kaua’i Historic Preservation Review Commission.



**Kea’au-Pāhoa Road Improvements
Kea’au-Pahoa, Puna, Hawaii**

Keaau Pahoa Road (Route 130) is the primary route for travel in one of the fastest growing districts of the state. The State Department of Transportation Highways Division is planning a highway widening, the addition of bike and pedestrian facilities, and improvements for safety throughout the corridor between Keaau Bypass and Pahoa Bypass on the island of Hawaii. This project addressed heavy congestion and safety measures in a context sensitive manner.



SSFM was responsible for planning, conceptual engineering, environmental review, agency coordination and public involvement. The project proceeded using a Context Sensitive Solutions process which involved community members, consultants, and HDOT staff in a series of advisory group sessions where all elements of the project were discussed and debated. The results brought widespread praise for the process and outcome by participants as well as the broader community.

SSFM managed all specialty sub-consultants to ensure accuracy and quality as well as coordinated and timely results. Major work elements included developing long range traffic forecasts, conducting traffic studies, developing and comparing alternatives, developing civil plan and profile drawings. State and Federal regulations that had to be complied with included Section 106, consultation with Native Hawaiian Organizations, Section 7 consultation on threatened and endangered species, Coastal Zone Management, Title VI Environmental Justice. SSFM was responsible for writing and processing the Draft Environmental Assessment, for responding to comments, and for completing the Final Environmental Assessment and Finding of No Significant Impact.

Estimated Project Construction Cost: \$130 million

EA / EIS PROJECT EXPERIENCE



Keehi Small Boat Harbor, Wastewater Pump Station and Force Main, Honolulu, Hawaii

This project involved the replacement of existing wastewater collection and disposal system with a new wastewater pump station at the Keehi Small Boat Harbor and force main beneath the Kalihi Channel. SSFM was responsible for the preparation of an Environmental Assessment and permits such as the U.S. Army Corps of Engineers Permit, Conservation District Use Permit, Shoreline Setback Variance, and a Special Management Area Permit.



Paia Relief Road Project No. STP-361-1 (11) Paia, Maui, Hawaii

SSFM was responsible for community involvement, planning, conceptual design analyses, and preliminary engineering services necessary to prepare and process an Environmental Impact Statement (EIS) meeting both Federal and State requirements for the "Paia Bypass Road" on the Island of Maui. This new roadway would be constructed through former sugar cane lands and is meant to provide an alternate route and create relief to the congestion and safety issues in Paia town. Parts of the relocated road will alleviate coastal erosion effects and improve access to an important recreation facility for windsurfing.



The Project limits of the corridor start at the intersection of Hana Highway with Haleakala Highway, pass through Paia town, and end just before Maliko Gulch. The section is approximately 6.5 miles. Important issues include farmland effects, waterways,

SSFM was responsible for coordinating the potential alternative alignments and their impacts with interested County, State, and Federal agencies, public utility, community and civic organizations, private firms and the major landowner. SSFM was responsible for making recommendations for the best overall solution for the corridor and provide complete analyses and justification for the solution.

In coordination with the State Department of Transportation, SSFM conducted a Context Sensitive Solutions (CSS) process for the Paia Relief Route project. The approach integrated community objectives and values with traditional transportation objectives such as safety, efficiency and capacity. SSFM helped form a representative Advisory Group, which has been involved throughout the project process. A series of public information meetings have been held to update the community on the project's progress. As a result of using CSS, this transportation project is more likely to fit in with the community's character and have less impact on environmental resources, while maintaining safety and mobility.

Study Fees: \$2.5 million

EA / EIS PROJECT EXPERIENCE



**Environmental Assessment for Kawaihae Harbor
Kawaihae, Hawaii**

SSFM is currently preparing an Environmental Assessment (EA) to cover the proposed Master Plan and Development Plan improvements for Kawaihae Harbor in accordance with State Chapter 343, Hawaii Revised Statutes regulations. A number of improvements are being assessed in this EA as the proposed action. The following short-term improvements, covered in this Environmental Assessment include:

- Transfer of jurisdiction for Perimeter Road to DLNR’s Division of Boating and Ocean Recreation (DOBOR)
- Fencing along Perimeter Road
- Grading of Coral Flats Area for future uses identified in *Hawai’i Island Commercial Harbors 2035 Master Plan Update*
- Extensions of Piers 2A and 2C and Associated Dredging
- Maintenance Dredging at Pier 1 and Pier 2
- Relocation of Permanent Office and New Comfort Stations
- Yard Improvements, including structural pavement strengthening and Lighting
- Ancillary facilities, shed and building improvements
- Internal Roadway Circulation
- Improvements to Main Gate and South Gate, including provision of turn lanes and taper areas along Kawaihae Road

Estimated Cost: \$288,316 (fees)



**Anahola Bike and Pedestrian Path Project
Anahola, Kauai, Hawai’i**

The County of Kauai, Department of Public Works, is planning the construction of a bike and pedestrian path of about 2.5 miles along the shoreline from Ahihi Point in the Hōmaikawa’a ahupua’a to the County’s Anahola Beach Park. Other path amenities are planned such as vehicular parking areas, comfort stations, etc.

SSFM was responsible for the project management, preparation and processing of an Environmental Assessment, preparing and processing discretionary land use permits for the project which include a Conservation District Use Permit and Special Management Area Use Permit, and preparing a Basis of Design and Scope of Work for the County’s use in preparing a design-build RFQ and RFP package.

Major work components include implementing a community outreach program with the Anahola community in coordination with State Department of Hawaiian Home Lands, conducting technical analysis, and preparing and processing the Environmental Assessment. Compliance with Federal regulations includes conducting Section 106 consultation with Native Hawaiian organizations, Section 7 consultation efforts with FWS, and compliance with Executive Order (EO) 11988 on floodplains and Coastal Zone Management Act, and address Title VI environmental justice requirements.

EA / EIS PROJECT EXPERIENCE



Waikoloa Makai Project
Waikoloa, Hawaii
Waikoloa Land Company

The Waikoloa Land Company is planning to develop a resort residential subdivision on a 27-acre site referred to as the White Property situated along the shoreline adjacent to the Waikoloa Resort. This development would consist of a mixture of multi-family residential units, a restaurant, and recreational amenities compatible with and complementary to the resort.

SSFM is responsible for the overall project management, and the preparation and processing of an Environmental Impact Statement (EIS) meeting State requirements. The EIS would be used to apply for discretionary land use approvals for the project which include a State Land Use District Boundary Amendment, County General Plan Amendment, Change in Zoning, and Special Management Area Use Permit.

The EIS being prepared incorporates the work of several subconsultants to address specific technical areas, and addressing community concerns and issues with effects over natural resources in the area.



Aleo Drainage Improvements
Kahului, Maui, Hawaii
Department of Public Works and Environmental Management,
County of Maui
Planning Services: Environmental Assessment, Section 106
Review

SSFM is the Prime Consultant for the design a drainage system to collect and dispose of runoff waters near the intersection of Ohaa Street and Maalo Street (in the vicinity of Kahului Community Park) so that flood waters from those roadways during storm events are mitigated from entering Aleo Place which has caused flooding of neighboring properties at the bottom of the cul-de-sac roadway. Planning work for the project involves preparation of a State Environmental Assessment and Federal Section 106 (Historic Preservation) review.

EA / EIS PROJECT EXPERIENCE



Nā'ālehu and Pāhala Large Capacity Cesspool Conversion Project
Nā'ālehu and Pāhala, Ka'ū, Hawaii
County of Hawaii, Department of Environmental Management

The County of Hawai'i, Department of Environmental Management is constructing sewer system improvements to serve the communities of Nā'ālehu and Pāhala which are both located in the Ka'u District of the Island of Hawai'i. The improvements are planned to establish an approved collection, treatment, and disposal system replacing the large capacity cesspools presently serving areas of these communities.

SSFM prepared and processed an Environmental Assessment (EA) in accordance with State environmental requirements. The EA also served as a NEPA-like document to meet the State of Hawaii's Clean Water State Revolving Fund Program requirements. Major work components included addressing infrastructure and effects on natural resources, and consulting with the communities.



Queen Lili'uokalani Village Large Capacity Cesspool Conversion Project
Kailua-Kona, North Kona, Hawaii
County of Hawaii, Department of Environmental Management

The County of Hawai'i, Department of Environmental Management is constructing sewer system improvements to serve the Queen Lili'uokalani Village Subdivision located within the Kailua-Kona area of the North Kona District, Island of Hawai'i. The improvements are planned to establish an approved collection, treatment, and disposal system replacing the large capacity cesspools presently serving this subdivision.

SSFM is preparing and processing an Environmental Assessment (EA) in accordance with State environmental requirements. The EA also served as a NEPA-like document to meet the State of Hawaii's Clean Water State Revolving Fund Program requirements. Major work components included addressing infrastructure and effects on natural resources, and consulting with the community.

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Planning Project Experience

The following is a list of representative projects where SSFM served as the Prime Consultant and demonstrates SSFM's ability to successfully manage both small and larger complex planning project assignments.

PLANNING PROJECT EXPERIENCE



Biological Control Containment Facility Various Locations, Hawaii

SSFM provided a comprehensive planning document for a proposed new Department of Agriculture, Biological Control Containment Facility on Oahu. SSFM also prepared a project development report (PDR) and rough order of magnitude construction cost estimate. The PDR included Land Area Requirements, Building Area Requirements, and Applicable Regulations. It also included a Site List with available State-owned properties and Environmental permits and studies.

Estimated Construction Cost: \$90 million to \$140 million



Central Oahu Transportation Study Oahu, Hawaii

SSFM prepared a study to assess the multi-modal transportation needs of the Central Oahu Region, identified key transportation system improvements, strategies, and policies that can improve regional transportation mobility and access in a sustainable way. The study developed desired multi-modal strategies and system improvements that are technically feasible, financially realistic, sustainable, and meet regional transportation needs.

Estimated Cost: \$543,544 (fees)



North Shore Sustainable Communities Plan Honolulu, Hawaii

SSFM provided a five-year comprehensive review of the 2011 North Shore Sustainable Communities Plan that was inclusive and reflective of community sentiments and desires. SSFM adapted to an entirely virtual community engagement format. In a highly engaged community, this involved developing a large amount of online content that would bring transparency to the process and allow extensive participation.

Cost: \$285,760 (fees)



West Kauai Energy (fka Puu Opae Water) Project Environmental Assessment, Kokee-Kekaha, Kauai, Hawaii

SSFM was the Prime Consultant responsible for the preparation of an Environmental Assessment (EA) for this integrated renewable energy and irrigation project that would utilize state land and water for the following objectives: Renewable energy production via hydroelectric electric generation; and, renewable energy production via solar photovoltaic (PV) generation.

Cost: \$212,895 (fees)

PLANNING PROJECT EXPERIENCE



**Farrington Highway Corridor Study
Waianae, Hawaii**

SSFM was the Prime Consultant for the planning and investigations that identified recommendations for ways to reduce congestion, enhance capacity, and increase safety while improving resiliency along 14 miles of the Farrington Highway corridor from the end of H-1 in Kapolei to Makaha Beach Park. The study identified short and long term improvements needed to maintain the Farrington Highway corridor.

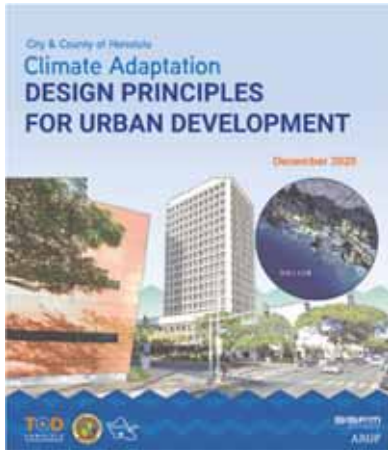
Cost: \$4974,959 (fees)



**FY18 Tinian Construction Capacity Study (TCCS)
Tinian, Commonwealth of the Northern Mariana Islands (CNMI)**

SSFM provided a comprehensive analysis of the infrastructure and resources requirements to support Department of Defense construction activities on the island of Tinian, CNMI. The project team developed a methodology to produce recommendations based on a systematic approach in analyzing resources and limitations to each technical discipline. The purpose of the TCCS was to assist DoD in making informed planning and programming decisions for future DoD construction on Tinian.

Cost: \$1.23 million (fees)



**Climate Change Adaptation Study
Island of Oahu, Hawaii**

SSFM provided planning services for development of the County's TOD Climate Change Adaptation Guidelines including Data Collection and Outreach, and Infrastructure Planning.

The purpose of this project was two-fold: 1) to outline design principles that can be used to help develop policy and regulations for property in Honolulu's transit-oriented development (TOD) and other urban areas that may be vulnerable to sea level rise (SLR) and other climate change-related hazards; and 2) to provide developers and design professionals with preliminary guidance and information to consult when developing new project applications, or when considering adaptation options for existing projects.

Estimated Construction Cost: \$34,000 (fees)



Waiawa Correctional Facility Plan Review Use and Special Use Permits, Waipahu, Hawaii

SSFM prepared an Environmental Assessment, researched and completed the necessary requirements of applications for the Special Use Permit (SUP) and Plan Review Use (PRU) required to bring this Facility into compliance with the Land Use Ordinance (LUO).

Cost: \$334,534 (fees)

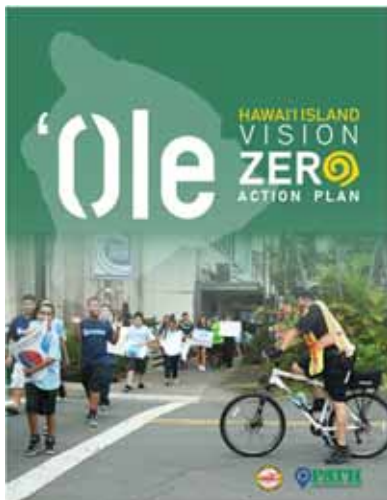
PLANNING PROJECT EXPERIENCE



Kamuela Vacuum Cooling Plant, Master Plan Feasibility Study, Kamuela, Hawaii

SSFM provided planning and project management services for a master plan study of an existing property in Kamuela that the client owned and leased to a cooperative. SSFM provided recommendations to update the existing facility to meet the Food and Drug Administration’s Food Safety Modernization Act (FSMA), as well as explored expansion of the property to offer other amenities, such as washing, packing, and processing of produce to encourage and promote farming.

Cost: \$100,000 (fees)



Hawaii County Vision Zero Action Plan Hawaii Island, Hawaii

SSFM assisted the County of Hawaii on the first Vision Zero Action Plan in the State that identifies how the County will achieve its goal of eliminating traffic related fatalities and serious injuries. Hawaii County’s Vision Zero Action Plan is the first to be completed in the State of Hawaii. The collaborative nature of the Task Force process greatly supported the success of the initiative, as did SSFM’s efforts to obtain and analyze available crash data. The importance of quality data became a theme of the process, and the County of Hawaii Police Department (HPD) invited PATH to present to the staff on Vision Zero and the importance of HPD data to understanding and preventing traffic deaths.



Waimanalo Health Center Expanded Healthcare Facility Waimanalo, Hawaii

SSFM provided planning and civil engineering services for the construction of a new, two-story 17,961 square foot building. The building design reflected the team-based, patient centered health care home concept of care practiced which utilizes physicians and nurse practitioners working with support staff, and integrating behaviorist, nutritionist, case managers, and patient services.

Estimated Construction Cost: \$13 million



Samkoo Condo Re-Zoning Application, Kapiolani Boulevard and Kona Iki Street, Honolulu, Hawaii

SSFM provided civil engineering and traffic analysis services for the re-zoning application for the proposed Samkoo House Condominium project, a 43-floor condominium located at 1391 Kapiolani Boulevard in Honolulu.

Cost: \$99,000 (fees)

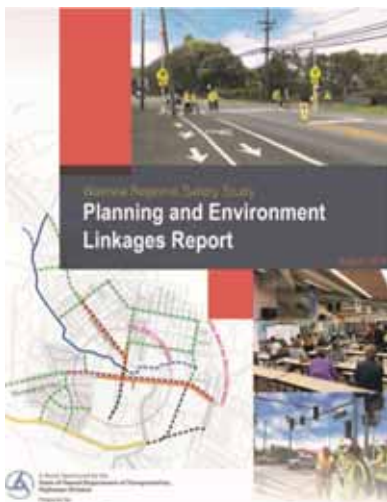
PLANNING PROJECT EXPERIENCE



Kauai Island Utility Cooperative Spill Prevention, Control, and Countermeasure Plan, Lihue, Kauai

SSFM updated the 2018 Cooperative Spill Prevention, Control, and Countermeasure Plan (SPCC) plan that was previously prepared by SSFM. This plan included recommended improvements, identified possible offsite releases and release impact mitigation and developed a logic diagram for recommended oil spill control improvements.

Estimated Cost: \$59,500 (fees)



Waimea Regional Safety Project (fka Kawaihae Road Bypass), Vicinity of Mahua Street to Mamalao Highway Kawaihae, Hawaii

SSFM was the Prime Consultant for this study that identified potential projects that would improve safety and operations, relieve congestion, and enhance multimodal travel options in the Waimea region through a Planning and Environment Linkages (PEL) study. The PEL process resulted in the identification of several projects that met the project Purpose and Need, including a new bypass alignment around Waimea, and multi-modal improvements along Kawaihae Road, Lindsey Road and Mamalahoa Highway.

Estimated Construction Cost: \$2.95 million (fees)



Assessing the Feasibility and Implications of Managed Retreat Strategies for Vulnerable Coastal Areas in Hawaii

SSFM prepared a study that was prompted by recent climate change legislation, plans and studies such as the Ocean Resources Management Plan (2013) and the Sea Level Rise Vulnerability and Adaptation Report (2017). The managed retreat study involved four main tasks: 1) Background research consisting of literature review and stakeholder consultation on managed retreat; 2) Four scenario profiles, involving preparation of hypothetical scenarios, site visits, and focus group discussions to explore retreat of different development types; 3) Symposium on managed retreat, with keynote speakers and participants from across the state; and 4) the Final Report which summarized the results of research and prior tasks.

Cost: \$125,000 million

PLANNING PROJECT EXPERIENCE



**Hawaii State Plan Update Phase I
Statewide, Hawaii**

SSFM conducted a comprehensive review of Hawaii Revised Statutes (HRS), Chapter 26, The State Planning Act. This review involved inventorying and reviewing all state department plans, strategic plans, functional plans, and capital improvement plans; identifying common themes and policy directions. SSFM developed findings as to the overall status of plans and prepared findings and recommendations for the next step in updating the State Planning Act.

Cost: \$\$49,933 (fees)



**Waimanalo Community Master Land Use Plan
Waimanalo, Oahu, Hawaii**

SSFM developed an Exploratory Document that communicates values, places, and ideas that the community holds dear. It identifies the things that need to be preserved, created, or improved upon in order to keep Waimānalo, Waimānalo well into the future. The time horizon for the Strategic Community Plan is 20 years.

Cost: \$245,541 (fees)



**Coconut Island DC Microgrid
Kaneohe, Hawaii**

SSFM assisted the University of Hawaii, Hawaii Natural Energy Institute (HNEI) with environmental compliance and permitting for HNEI's proposed improvements and their renewable energy demonstration project on Moku O Loe (aka Coconut Island). Improvements included development of a new renewable energy generation, storage, and distribution system.

Estimated Cost: \$10,000 (fees)



**Noise Attenuation Keaukaha Subdivision, Phase 2
Hilo, Hawaii
State Project No AH1071-16**

SSFM assisted with the development of a communication plan for the Hilo Community and the Department of Hawaiian Home Lands and Department of Transportation. Services involved outreach services that included attendance at meetings with the Keaukaha community and additional meetings with the community's Noise Sub-Committee Representative throughout the project.

Estimated Cost: \$35,200 (fees)

PLANNING PROJECT EXPERIENCE



Complete Streets Planning, Rehabilitation of Streets Phase 12D and Units 67 74 76 77, Honolulu, Hawaii

SSFM provided public outreach, environmental planning, and civil design services to support Fehr & Peers in developing a multimodal transportation assessment, context sensitive solutions process, and design work for roads included in the Rehabilitation of Streets program Phase 12D and Units 67, 74, 76, and 77.

Cost: \$964,200 (fees)



Complete Streets Phase 2, Liliha Street, Nuuanu Avenue and University Avenue Study, Honolulu, Hawaii

SSFM provided traffic counts at eleven intersections, walk audits, traffic analysis, stakeholder meetings, public meetings, collection of survey data, environmental documentation, formulation of recommendations incorporating Complete Streets concepts, writing report and developing 30% design plans in AutoCAD Civil 3D (for Liliha Street and Nuuanu Avenue).

Cost: \$450,000 (fees)



**Albizia Mitigation Plan
Various Locations, Hilo, Hawaii**

SSFM prepared the "Albizia Management and Business Plan". The report will serve as an Informational document to request funding to manage and control the Albizia Trees on the Island of Hawaii.

Estimated Construction Cost: Not Applicable (Study)



Complete Streets Planning, Rehabilitation of Streets Phase 12D and Units 67 74 76 77, Honolulu, Hawaii

SSFM provided public outreach, environmental planning, and civil design services to support Fehr & Peers in developing a multimodal transportation assessment, context sensitive solutions process, and design work for roads included in the Rehabilitation of Streets program Phase 12D and Units 67, 74, 76, and 77.

Cost: \$964,200 (fees)



**Multi Modal Bike Plan (aka Downtown/Chinatown Complete Streets Implementation Project)
Honolulu, Hawaii**

SSFM provided transportation engineering services for this project to further implement complete streets projects in urban Honolulu, particularly in and around proposed rail and transit facilities. In three months, SSFM not only completed data collection at 12 intersections during the morning and afternoon peak periods and traffic analysis, but engaged hundreds of stakeholders to gather input on the project and generate awareness and support for complete streets in general.

Cost: \$200,000 (fees)

PLANNING PROJECT EXPERIENCE



**Lihue Community Plan Update
Lihue, Island of Kauai, Hawaii**

SSFM prepared the Lihue Community Plan to articulate a vision and policies for a revitalized and vibrant Lihue Town Core, as well as Puhi, Hanamaulu, and other nodes in the Lihue Planning District. Development of the Lihue Community Plan included technical studies on existing conditions, cultural resources, demographics, transportation and connectivity, public services and infrastructure, housing, growth scenarios, and areas of change.

Cost: \$770,000 (fees)



**Island Wide Transit Master Plan
Island of Hawaii, Hawaii**

SSFM prepared the County of Hawaii's next generation Transit Master Plan (TMP). Using a comprehensive approach to review current needs and to forecast future demand this study will help determine the type of transit system and service levels that will be required to meet Hawaii County's changing needs through 2036. The Plan integrated strategies for creating a transportation network designed and operated to enable safe access for all users in Hawaii County. The Plan also identified key corridors linking rural communities and establishes performance standards for transit service. In addition, the Plan included an evaluation of modes, bus services, station designs, capital infrastructure, and fare structures.

Estimated Cost: \$500,000 (fees)



**Central Oahu Transportation Study
Various Locations, Oahu, Hawaii**

SSFM prepared a study to assess the multi-modal transportation needs of the Central Oahu region, identify key transportation system improvements, strategies, and policies that can improve regional transportation mobility and access in a sustainable way. The study developed multi-modal strategies and system improvements that are technically feasible, financially realistic, sustainable, and meet regional transportation needs.

Estimated Cost: \$499,250 (fees)



Joint Development for Affordable Rental Housing and Juvenile Services Center/Shelter, Alder Street, Honolulu, Hawaii

SSFM provided project conceptualization, intra-agency facilitation, environmental documentation and community outreach for the development of the first mixed used project on State owned land within the City's TOD. The project is proposed to be a 266,000 SF/19-Story Mixed Use Development that addressed the community's need for affordable rental housing and a facility for juvenile services and a shelter for children at-risk. This urban high-density solution epitomizes the type of development promoted to support TOD initiatives and transforms underutilized State land assets into a vibrant development much needed by the community.

PLANNING PROJECT EXPERIENCE

Estimated Construction Cost: \$196.3 million (preliminary budget)



Puuloa Shoreline Erosion Study, Puuloa Range Facility Marine Corps Base Hawaii Kaneohe, Hawaii

SSFM prepared this study to investigate coastal processes in the project area and the condition and characteristics of the shoreline, determine historical shoreline changes, analyze wave induced sand transport mechanisms, and develop possible erosion control alternatives.

Estimated Construction Cost: Not Applicable (study)



Multi Modal Bike Plan, East Kapolei, Kalihi, and Kakaako Oahu, Hawaii

SSFM assisted the City and County of Honolulu in defining bicycling facility projects that will integrate multi-modal access and connections to Honolulu rail stations and other transit facilities. Facilities should be compatible with the network of bicycle facilities identified in the Oahu Bike Plan (August 2012). Projects will consist of bicycle paths, protected bike lanes, and other bicycle facilities which lead to transit stations or bus transit centers.

Estimated cost \$100,000 (fees)



Downtown Hilo Multi-Modal Mobility Master Plan and County of Hawaii Complete Streets Program, Downtown Hilo, Hawaii Island, Various locations on Hawaii Island

SSFM provided professional planning services for the preparation of the Downtown Hilo Multi-Modal Master Plan and the County's Complete Streets Program. The Downtown Hilo Multi-modal Master Plan will establish a community-driven Master Plan for policies, programs, and projects which will improve overall mobility throughout the Downtown area and provide multi-modal connections to high activity locations. The County of Hawaii Complete Streets Program assignment is to create a program which will implement a balanced, multi-modal transportation network throughout the island.

Estimated cost \$500,000 (fees)



General Plan Update, County of Kauai Island of Kauai, Hawaii

SSFM was the Prime Consultant responsible for the update of the General Plan as required by the County Charter and to develop an appropriate strategy for the future development of Kaua'i County, including recommendations and policies for zoning, form-based coding, sustainable growth patterns, multi-modal transportation connectivity, recreational opportunities, economic development, conservation, green infrastructure, and other issues relevant to the future growth and development of the County. Estimated cost

PLANNING PROJECT EXPERIENCE

\$824,500 (fees)



Hawaii Natural Disaster Economic Recovery Strategy Statewide, Hawaii

SSFM was the lead consultant for the preparation of a Natural Disaster Economic Recovery Strategy with a focus on small business. SSFM worked with a project Advisory Group made up of 35 public and private agencies engaged in disaster work.

The study considered multi-hazards for disasters that strike Hawai'i. The study covered both pre-disaster operations continuity planning and post-disaster recovery actions that are important for small businesses. This plan was conducted under a grant from the US Economic Development Administration (EDA).

A series of focus groups were being held across the state to find out what each business knows about continuity preparedness, response, and recovery to natural disasters. The focus groups were followed by a statewide electronic survey of small businesses to gauge how widespread were the gaps

The study deliverables included three reports: Existing Conditions, Gaps and Strengths; Goals & Objective and Alternate Strategies; and Final Plan and Recommendations.

Estimated cost \$79,438 (fees)



County of Maui Transportation Department Maui Short Range Transit Plan Update, Maui County, Hawai'i

SSFM is providing planning services for the development of a five-year Service Improvement Transportation Program for the County of Maui. The work in this task is considered an update of current services. The Service Improvement Transportation Program will be developed such that services are defined on a year by year basis for ease in budget development, service deployment and contractor procurement

Estimated cost \$162,240 (fees)



Hilo MTA Baseyard Hilo, Hawaii

SSFM prepared the Categorical Exclusion Report for Mass Transit Agency Facility, under 23 CFR Section 771.117(d). Consulted and assisted the County with National Environmental Protection Act (NEPA) compliance for the facility project. Drafted the Declaration of Exemption from preparation of an Environmental Assessment under Chapter 343 using the exemption list of the County of Hawaii Department of Public Works and provided it to the County of Hawaii for finalization and filing.

Cost \$80,000 (fees)

PLANNING PROJECT EXPERIENCE



**Villages of Kapolei Northwest Corner, Real Estate Consulting Services
Kapolei, Hawaii**

SSFM provided planning and engineering services to support a project developer solicitation and selection process for the Hawai'i Housing Finance and Development Corporation (HHFDC). The goal of HHFDC was to select a qualified developer to plan, design, develop, and operate a vibrant, mixed-use "urban village" on a vacant 26-acre parcel in the Villages of Kapolei (VOK) development.

Cost \$71,000 (fee)



**APEX Wind Energy Hawaii Environmental Text and Maps
Island of Oahu, Hawai'i**

SSFM assisted Apex Wind Energy with the preparation of an Expression of Interest for a Lease Application for OCS from BOEM. Application to include three potential sites: two off East Honolulu and one approximately off of Honolulu Harbor.

Estimated Construction Cost: Not Applicable (Study)



**Hawaii State Civil Defense Emergency Warning Sirens
Statewide Planning Phase 2
Various Locations in Hawaii**

SSFM is the Prime Consultant responsible for securing site approvals for approximately 200 sites statewide, including government permits/approvals, landowner approvals for each site, and assisting in preparation of the disposition documents. This work includes the installation of new composite poles, installation of new digital sirens, and removal of existing pole/siren where required.

Estimated Construction Cost: \$16 million



**Evaluation and Update of Hawaii 2006 Ocean Resources
Management Plan, Statewide, Hawaii**

SSFM provided professional planning services for the evaluation and update of The Hawai'i Ocean Resources Management Plan (ORMP). This is a statewide plan mandated by Chapter 205A of the Hawai'i Revised Statutes. The ORMP plan provides a framework for integrated coastal management that aligns the management agency jurisdictions of the federal, state, and county levels of the State of Hawai'i resource managers.

Estimated Cost: \$265,000 (fees)

PLANNING PROJECT EXPERIENCE



**Interstate Route H1 Corridor Study
Island of Oahu, Various locations, Honolulu, Hawaii**

SSFM was the Prime Consultant responsible for the comprehensive analysis study of this highway corridor. With the recent update of the Oahu Regional Transportation Plan (ORTP) the Hawaii Department of Transportation required a comprehensive analysis study of this corridor, specifically the Interstate Route H-1, for the purpose of identifying the future capacity needs on the interstate, along with an alternatives and feasibility analysis on short-, mid- and long-term congestion and capacity improvements.

Estimated Cost: \$1.99 million (fees)



**Department of Defense, Interoperable Mobile Broadband Data System Planning
DAGS Job No. 26-14-7498
Statewide, Hawaii**

SSFM was the Prime Consultant responsible for developing a Strategic Plan for the State of Hawaii that provided a sound basis for the development of a Statewide Interoperable Mobile Broadband Network through either First Net or the “opt-out” provisions of the Middle Class Tax Relief and Job Creation Act.

Estimated cost \$250,000 (fees)



**Ahukini Lydgate Bike Pedestrian Path
Island of Kauai**

SSFM provided the Section 106 consultation and the environmental process for the Ahukini to Lydgate Landing Shared Use Path. This work had been started by another consultant who was unable to complete it. The effort involved additional outreach to Native Hawaiian Organizations and a public meeting to determine whether further information and/or impacts on resources were needed to be considered or addressed.

Ahukini to Lydgate is one of six sections of an 8-10 foot wide shared use path through former cane haul roads, shared space along a golf course, and res-use of a historic railroad bridge. Restrooms, trailhead parking, and scenic overlooks at three (3) locations.

Estimated Construction Cost: \$20.1 million



**Kaloi Gulch Drainage Improvements
West Oahu, Hawaii**

SSFM was initially contracted with Haseko Development to prepare and re-file a Conservation District Use Application (CDUA) for the proposed Kaloi Gulch Drainage Improvements with the State Department of Land and Natural Resources.

SSFM restructured the approach to the project by defining and creating a “Regional Need” for the proposed drainage improvements. This involved redefining the project to identify specific benefits to mauka landowners. After realizing the benefits from the proposed improvements, the State Department of Hawaiian Home Lands and

PLANNING PROJECT EXPERIENCE

University of Hawaii, West Oahu joined as co-applicants on the CDUA.

Estimated Construction Cost: \$50 million



Waikiki Bridges

OahuMPO Transportation Asset Climate Change Risk Assessment, Various Locations, Oahu, Hawaii

SSFM was the Prime Consultant for this planning study that involved performing a risk assessment of important transportation assets to the impacts of climate change. Honolulu was one of five pilot locations selected nationwide by FHWA to test a risk assessment climate change methodology for future application on a broader basis. The work involved assessing the likelihood and magnitude of three climate change characteristics (stressors) on a prioritized inventory of the transportation assets. The climate change variables were: Storm surge, sea level rise (depicted) and heavy rainfall. SSFM worked with SOEST (UH) on adaptation mapping and interpretation. The five transportation assets were: Honolulu Harbor, Honolulu International Airport, Farrington Highway, Kalaeloa /Barbers Point and Campbell Industrial Park, and 3 bridges leading into Waikiki. In addition to likelihood and magnitude of vulnerability determinations, the team assessed consequences to society, and developed an integrated risk assessment. Estimated Cost: Not Applicable (Study)



**Kea'au-Pāhoia Road Improvements
Kea'au-Pahoia, Puna, Hawaii
Department of Transportation, State of Hawai'i**

Keaau Pahoia Road (Route 130) is the primary route for travel in one of the fastest growing districts of the state. The State Department of Transportation Highways Division is planning a highway widening, the addition of bike and pedestrian facilities, and improvements for safety throughout the corridor between Keaau Bypass and Pahoia Bypass on the island of Hawaii. This project addressed heavy congestion and safety measures in a context sensitive manner.



SSFM was responsible for planning, conceptual engineering, environmental review, agency coordination and public involvement. The project proceeded using a Context Sensitive Solutions process which involved community members, consultants, and HDOT staff in a series of advisory group sessions where all elements of the project were discussed and debated. The results brought widespread praise for the process and outcome by participants as well as the broader community.

SSFM managed all specialty sub-consultants to ensure accuracy and quality as well as coordinated and timely results. Major work elements included developing long range traffic forecasts, conducting traffic studies, developing and comparing alternatives, developing civil plan and profile drawings. State and Federal regulations that had to be complied with included Section 106, consultation with Native Hawaiian Organizations, Section 7 consultation on threatened and endangered species, Coastal Zone Management, Title VI Environmental Justice. SSFM was responsible

PLANNING PROJECT EXPERIENCE

for writing and processing the Draft Environmental Assessment, for responding to comments, and for completing the Final Environmental Assessment and Finding of No Significant Impact.

Estimated Project Construction Cost: \$130 million



Kahului Harbor Development Plan Kahului, Maui, Hawaii

SSFM is the Prime Consultant for this assignment and is responsible for the preparation of a Development Plan for Kahului Harbor. The Development Plan will describe project goals and objectives, plan schematics, project sequencing and (order of magnitude) cost estimates. The work includes assessing alternate land acquisition schemes to allow for expansion of harbor operations, as well as a review of the mix of uses between commercial and passenger operations. The improvements are understood to include:

- Alternate lay outs for expansion area
- Pier 1: Review need for fencing to separate passengers and cargo
- Pier 1: Upgrade fuel line under the guidelines of the DOT Harbors Statewide Fuel Facilities Development Plan
- Pier 2: Strengthen surface, pave and add security fencing around back up areas



Client Contact: Sandra Rossetter | (808) 587-1886



Paia Relief Road Project No. STP-361-1 (11) Paia, Maui, Hawaii

SSFM is responsible for community involvement, planning, conceptual design analyses, and preliminary engineering services necessary to prepare and process an Environmental Impact Statement (EIS) meeting both Federal and State requirements for the "Paia Bypass Road" on the Island of Maui. This new roadway would be constructed through former sugar cane lands and is meant to provide an alternate route and create relief to the congestion and safety issues in Pā'ia town. Parts of the relocated road will alleviate coastal erosion effects and improve access to an important recreation facility for windsurfing.



The Project limits of the corridor start at the intersection of Hana Highway with Haleakala Highway, pass through Paia town, and end just before Maliko Gulch. The section is approximately 6.5 miles. Important issues include farmland effects, waterways,

SSFM is responsible for coordinating the potential alternative alignments and their impacts with interested County, State, and Federal agencies, public utility, community and civic organizations, private firms and the major landowner.

In coordination with the State Department of Transportation, SSFM has been conducting a Context Sensitive Solutions (CSS) process for the Pā'ia Relief Route project. The approach integrates community objectives and values with traditional transportation objectives such as safety, efficiency and capacity. SSFM helped form a representative Advisory Group, which has been involved throughout the project process. A series of public information

PLANNING PROJECT EXPERIENCE

meetings have been held to update the community on the project's progress.



Bus Stop Location Project for County of Hawaii Mass Transportation Agency, Contract No. c.002161 Hilo, Hawaii

SSFM conducted a planning study and prepared a report for identification and recommendation of locations for bus stops island-wide in Hawai'i County. The Agency previously operated on a "flag stopping" basis, but with increased usage and traffic, the Agency will move to a designated bus stop program



Kawaihae Harbor

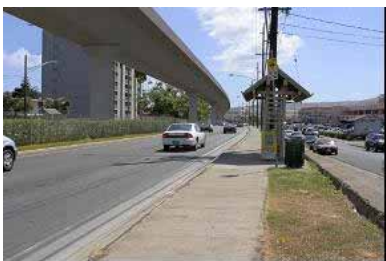
Hawaii Island Commercial Harbors 2035 Master Plan Update Kawaihae Harbor and Hilo Harbor Statewide Commercial Harbors Plans and Development Projects

SSFM was the Prime Consultant responsible for the recently completed Hawaii Island Commercial Harbors 2035 Master Plan. The master plan serves as a guide to the development of critical commercial harbor infrastructure (e.g., piers, cargo yards, passenger terminals, etc.) at Kawaihae and Hilo Harbors. The work in Hilo is primarily an update of the existing Master Plan. The work at Kawaihae includes integrating multiple uses such as military, small boats, commercial, future passenger and possible relocation of fuel storage plus internal circulation issues.



Hilo Harbor

The specific tasks included: ·Determination of parcel and roadway dimensions and boundaries; provision of topographic surveys; research and documentation of the maritime users operations; forecasts of cargo volumes; analyses of berthing requirements; development of terminal acreage requirements and terminal layouts; issues management, community and stakeholder involvement; compliance with Environmental Justice requirements; facilitation of plenary sessions; conflict resolution; estimation of design, construction, maintenance and operational costs; oversight of sub-consultant efforts; environmental analyses in accordance with HRS Chapter 343 and NEPA; environmental site assessments and characterization.



Airport/Kalihi Design Segment Preliminary Engineering and Engineering Support for EIS Preparation Honolulu High Capacity Transit Corridor Project, Honolulu, Hawaii

SSFM is providing engineering services to support the preparation of EIS documents and preliminary engineering (PE) designs for the Honolulu High Capacity Transit Corridor Project. SSFM was responsible for coordinating its work with other segment designers, architects, structural engineers, transportation engineers, and system engineers that are part of the PB Design Team. Only the portion of the Airport/Kalihi Design Segment within the "First Project" limits was designed to a PE level of effort. The First Project includes Dillingham Boulevard from Middle Street to Kaaahi Street. The

PLANNING PROJECT EXPERIENCE

remainder of the design segment including the section within the Honolulu International Airport (HIA) was not part of the First Project and the level of design effort was limited to a design level sufficient to support the environmental documents.



**West Oahu / Farrington Highway Guideway for the Honolulu High-Capacity Transit Corridor Project
Island of Oahu, Hawaii**

The SSFM Planning Group is responsible for environmental compliance of this segment of the guideway, the first segment of the Honolulu High Capacity Transit Corridor (HHCTC) Project.

Services involved preparing a Design Environmental Compliance Plan and review of all engineering submittals for conformity with the HHCTCP FEIS and ROD and historic preservation memorandum of agreement (MOA).

A key task was the preparation of Environmental Constraint Maps. This was a geo-referenced database of several hundred mitigation and permit conditions using ESRI's GIS platforms, ArcReader and ArcMap. These ECP maps were a tool that enhanced design engineers and reviewers to communicate with each other, indentifying risks and mitigation conditions. The user-friendly format allowed users to visualize mitigation requirements as they would appear in the field and then drill down to original source and reference documents.

SSFM is also responsible for all of the at-grade civil engineering, structural engineering, and permit approvals for this segment of rail alignment which is being undertaken as a Design-Build.

This West O'ahu / Farrington Highway Guideway Project is the first segment of the Honolulu High Capacity Transit Corridor Project. The guideway alignment is within existing roadway right-of-way whenever possible to minimize impacts on private properties. The project includes the design and construct of approximately 7 miles of guideway, including the associated roadway modifications, utility relocations, and other infrastructure from the East Kapolei Station, along North--South Road, across the Ho'opili development, and along Farrington Highway to a point just east of the Pearl Highlands Station on Kamehameha Highway.

Design services are expected to be completed in 2011 and construction in 2013. Construction cost \$483 million

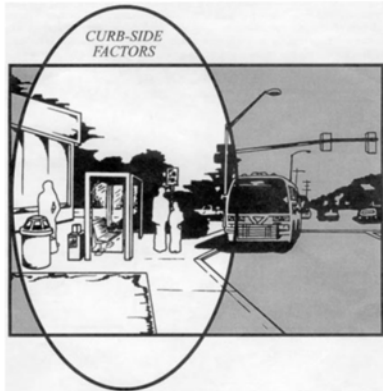


**Park N Ride Facilities
County of Hawaii, Mass Transit Agency**

The County has retained SSFM to provide services for the development of Park and Ride facilities for the County of Hawaii in support of the County Mass Transit Agency's Hele-On Bus system and the proposed County-assisted public car pooling efforts. This effort will occur in two Phases. Phase 1 will include developing selection criteria to identify and recommend four sites in the North Kona, South Kona, Puna, and Ka'u Districts of Hawaii County. In Phase 2, upon County acquisition of the sites selected, SSFM will

PLANNING PROJECT EXPERIENCE

provide civil design services for the development of facilities at each site. Cost: \$1,000,000.00



**Island-Wide Hele-On Bus Stops
Various Locations, County of Hawaii**

SSFM provided professional services for a study to review all existing Hele-On pick up points on the island. The report identified official bus stops for listing in the Hawai'i County Code; which are unofficial for signage only; which may be considered for a bench, shelter, turn-out area or other treatments common to bus stop areas; and reported on ADA compliance requirements as necessary.

**Hawaii Statewide
Transportation Plan**



**Statewide Transportation Plan
Job STP 1-900-PLAN**

SSFM was the Prime Consultant for the preparation of this policy level effort which involved the formulation of a statewide, multi-modal transportation plan. The HSTP Plan, signed by the Governor and Director of Transportation contains three volumes and an Executive Summary:

Volume 1 "Making Connections" includes eight goals and objectives; a description of socio-economic, land use and regulatory issues that affect transportation; a review of Data Systems; and a review of Financial Systems for Airports, Harbors and Highways.

Volume 2 includes ten Emerging Issue Papers: Impact of Federal Transportation Planning Regulations; Climate Change and Sea Level Rise; Aging Population and Transportation; Fuel and Energy Scenarios in Hawaii; Land Use Planning; Planning and Design; Transportation Security; System Preservation and Asset Management; Financial Scenarios; and Environmental Coordination.

Volume 3 includes Forecast Reports; and a summary of Public Involvement Activity completed during plan preparation.



**Oceanic Information Technology and Training Facility
Waimanalo, Oahu, Hawaii**

SSFM provided Functional Analysis Concept Development (FACD) and prepared contract documents for the Information Technology and Training Facility (ITTF). The Project Team held a series of six FACD sessions and was successful in developing the conceptual plan including drawings, cost estimate, design criteria and a signed agreement with the involved staff approving the project concept and estimated cost. The ITTF provides classrooms, training areas and exhibit spaces to promote education, training and to showcase the Oceanic Institute's research and technological accomplishments. Estimated construction cost is \$1,100,000.

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**Aloha Tower Planning & Development Feasibility Study
Honolulu, Oahu, Hawaii
State DBEDT, Aloha Tower Development Corporation**

SSFM participated as a member of the Project Team that assisted the State’s Aloha Tower Development Corporation (ATDC) in redefining its current project vision and updating its development strategy for the Honolulu Waterfront at Aloha Tower. The objective of this study was to place ATDC in the strongest possible position to solicit development proposals that: 1) will invite creative development approaches, 2) be built to maintain long-term economic viability; and 3) address existing parking problems. This planning and development feasibility study involved community meetings and workshops with waterfront users, assisting ATDC with RFP development, evaluating urban design standards and land use policies for the site, and preparing a detailed plan. This balanced approach was strongly market centered and at the same time directed at achieving the ATDC mission in serving a public purpose.



**Addition and Renovations to the Maui Memorial Medical Center
Wailuku, Maui
Hawaii Health Systems Corporation**

SSFM provided project management services for the master planning and preparation of the conceptual design for this Medical Center’s first major expansion project since it received its autonomy from the State of Hawaii. Services includes preparing scope of work documents, conducting and facilitating all planning, preparing contracts (design services and construction services), monitoring and tracking progress and budgets, etc. Estimated construction cost of \$35,000,000.



**Infrastructure Upgrade for Plant Management for the Hawaii Health Systems Corporation
Statewide Hawaii
Hawaii Health Systems Corporation**

Hawaii Health Systems Corporation (HHSC) selected SSFM International, Inc. for the development of the RFQ/RFP for the \$50 million Infrastructure Upgrade for 10 of their 12 public hospitals and health care centers. The SSFM Team identified over 200 work tasks that were used in the solicitation of RFP. The tasks focused on energy saving initiatives as well as capital improvement projects. The result confirmed that at least one half (\$25 million) of the upgrade will be financed by the savings in energy, water and fuel oil. The implementation commenced in the fall of 2000. The RFQ was advertised in August 1999 and the RFP in September 1999. A recommendation for the selection of an Offeror was made in early February 2000, in just 6 months from the date of the RFQ.

PLANNING PROJECT EXPERIENCE



**Hokukano Ranch Visitors Center
Kealakekua, Hawaii, Hawaii
Hokukano Ranch, Inc.**

Hokukano Ranch, Inc. is seeking to develop a visitor’s center on 5.6 acres in Kealakekua on the island of Hawaii. This visitor’s center will serve as the greeting and operational center for ranch visitors and a staging area for conducting ecotourism activities on the larger 12,000-acre Hokukano Ranch property. This center will include a central commercial center containing office space, visitor registration area, gift shop and other accessory facilities. Other accessory structures and uses on the project site will include a craft shop, greenhouse, small petting zoo and parking areas for visitors and employees. SSFM was responsible for preparing and processing a Change of Zone from the Single-Family Residential (RS-15) and Agricultural Districts (A-1a) to the Village Commercial District (CV-10) which included extensive consultation with County DWS and DPW to address infrastructure requirements.



**Hawaii Insight Meditation Center
Kapaau, Hawaii
Vipassana Hawaii**

Vipassana Hawaii is a non-profit organization proposing to develop Hawaii Insight Meditation Center complex on 15 acres of land in the North Kohala district of the island of Hawaii. Design of the complex incorporated an architectural style that is authentic and appropriate to life in the tropical environment of North Kohala. Facilities planned will consist of different types of housing facilities for guests and staff, centralized complexes of buildings, and staff support facilities totaling 45,500 square feet of space. Facilities planned for the initial phase of the project are intended to accommodate up to about 60 guests or retreatants. Full build-out of the complex will accommodate up to a maximum of 100 guests. SSFM was responsible for preparing a Special Permit (15 acres or less) and assisting the client’s attorney with its processing through the County Planning Commission.



**A Study to Establish Benchmark Criteria and Assign
Benchmarks for U.S. Insular Areas
US Army Corp of Engineers**

SSFM is responsible for conducting a study which determines criteria for the establishment of benchmark indicators, and assigns benchmarks for various government infrastructure and public facilities in the U.S. Insular areas. The benchmark indicators are measureable and expressed in quantitative terms using ESRI’s ArcView as its platform software. This is being done for Tutuila in the Territory of American Samoa, Ebeye and Majuro in the Republic of the Marshall Islands, Kosrae, Pohnpei, Chuuk State and Yap Islands in the Federated States of Micronesia, Saipan in the Commonwealth of the Northern Marianas.

PLANNING PROJECT EXPERIENCE



Windward YMCA Access Road Improvements
Kailua, Oahu, Hawaii
YMCA of Honolulu

This project involved transportation planning to develop a new access road and parking improvements to serve the Windward YMCA, and preparing a traffic impact study. SSFM developed a range of access alternatives and parking modifications, conducted coordination efforts with agencies to address effects on the adjacent heiau national landmark, and addressed easement issues from adjacent churches. Work included conducting a traffic impact study to address impacts to Kailua Road from the new access road and expansion of YMCA facilities.



Kohanaiki Community Meeting Facilitation
Kohanaiki, Hawaii, Hawaii

The Mayor's Office of Research and Development requested that SSFM provide assistance with conducting and facilitating community meetings on behalf of the County for the extremely controversial Kohanaiki development. The Kohanaiki Resort is a 442-acre development that had been halted due to litigation and community opposition since the late 1980's. The County needed assistance to help facilitate discussion among parties to reach a consensus allowing this project to move forward and avoid further litigation. This development will now include a golf course, residential lots, recreation and cultural shoreline amenities. SSFM served as the neutral party for the County to help successfully facilitate a series of meetings to finally address and resolve long standing concerns of the community, the County, and the developer. With consensus reached among parties, this development is now able to move forward working with the community.



Primary Corridor Transportation Project
In-Town Bus Rapid Transit (BRT) Component
Honolulu, Oahu, Hawaii

SSFM provided professional services for the overall project management of final EIS Phase for the City's proposed Primary Corridor Transportation Project. In addition, SSFM was responsible for the project management and engineering services for the preliminary engineering for the in-town portion of the project. The project extends 27 miles from the City of Kapolei, past Pearlridge, Pearl Harbor, Honolulu International Airport, to Downtown Honolulu, and continuous eastward to the University of Hawaii at Manoa. The inner city portion of the project extends from Middle Street to Waikiki and to the University of Hawaii. SSFM developed a GIS system that consisted of all project specific planning and pre-design information to allow for easy data retrieval as well as a graphical project management tool. The system was designed to show all of the necessary alternatives, mitigative measures, design changes, including color coordinated time schedules which allowed for visual aids for public meetings as well as internal communication aids.

PLANNING PROJECT EXPERIENCE



**Kahuku Sugar Mill
Kahuku, Oahu, Hawaii
Fort Street Investment Corporation**

SSFM conducted planning research with the City and County of Honolulu and other government agencies associated with project site, including land use, entitlements and related conditions. SSFM also conducted coordination and consultation efforts with other government agencies associated with project related issues (e.g. historic properties) which included meetings, preparing memos, and research.



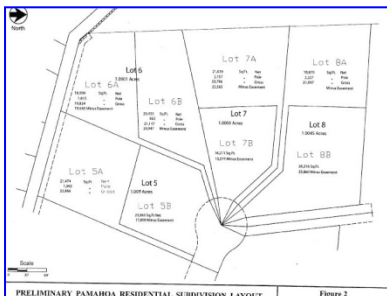
**Traffic Calming Improvements - Various Neighborhoods
Various Neighborhoods, Oahu, Hawaii
Department of Transportation Services, City & County of Honolulu**

The City and County of Honolulu is constructing traffic calming devices in several neighborhoods to address speeding vehicles and make roads safer. Construction of devices such as bulb-outs, medians, speed tables and roundabouts are designed to reduce vehicle speed. The effectiveness of these devices is being measured through the preparation of traffic studies in several of these neighborhoods to evaluate before and after conditions. SSFM is conducting traffic analysis for these devices to evaluate its effectiveness. Information is being gathered for data such as vehicle speed, concentration, and classification through the use of pneumatic tubes and manual traffic data boards.



**Kuliouou Wastewater Pump Station Modification and Force Main Replacement Project
Honolulu, Oahu, Hawaii
Department of Design and Construction, City and County of Honolulu**

This \$5.27 million project proposed rehabilitation improvements to the Kuliouou Wastewater Collection System and Kuliouou Wastewater Pump Station, which services residences in the Kuliouou Valley area of East Honolulu. SSFM evaluated six proposed improvements and its impact upon the surrounding environment.



**Pamahoa Residential Lots Subdivision
North Kona, Hawaii
Ho'awe LLC**

SSFM was responsible for research and planning to obtain a Change of Zone from the existing Agricultural District (A-1a) zoning to the Single-Family Residential District (RS-15) zoning for four (4) lots within the existing Pamahoa Estates Subdivision. With the Change of Zone approval, this would effectively permit the creation of an additional four residential lots within the existing subdivision.

PLANNING PROJECT EXPERIENCE



Niu Valley Feasibility Study for the Charles Lucas Residuary Trust
Honolulu, Hawaii
Bank of Hawaii Investment Services Group
Honolulu, Hawaii

SSFM prepared a Preliminary Site Feasibility Assessment Report (Feasibility Report) for the Bank of Hawaii (BOH), Trust Real Estate Department, to evaluate the feasibility of developing single family residences associated with two (2) parcels of land in Niu Valley owned by the Charles Lucas Residuary Trust.

The Feasibility Report presents a description of the land parcels involved and the findings of a preliminary assessment to identify infrastructure and site development issues, and requirements associated with its development for single-family residences. Improvements assessed include driveway construction, structural considerations, and site grading and erosion control. Also included are descriptions of infrastructure improvements for existing storm drainage, potable water, wastewater disposal, and electrical power and communication systems.

The primary issue affecting these site's development is vehicular access due to the steep cliff face of a ridge present at the parcel's connection with Kalaniana'ole Highway. Although the Trust owns two parcels, it was determined that only a single-family residence could be practicably developed due to the site conditions and vehicular access issue. Three (3) options for the site's residential development have been developed which are primarily associated with driveway access alternatives.



Existing Use Permit for Beverly Manor
Honolulu, Hawaii
The ARBA Group
Los Angeles, California

The ARBA Group has an existing nursing facility of about 59,300 square feet identified as Beverly Manor located in the Kalihi district of the island of O'ahu. The owner desires to obtain an Existing Use Permit (EUP) for the Beverly Manor because it was constructed in the 1970s and is considered a "non-conforming" use under the City's *Land Use Ordinance*. The EUP will allow the facility to be recognized as a permitted use under the City's zoning code, and can be rebuilt to its current condition if damaged due to natural hazards.

SSFM prepared and processed an Existing Use Permit Application for Beverly Manor with the City Department of Planning and Permitting.

PLANNING PROJECT EXPERIENCE



Kamehameha Highway 8-Inch Mains
North Shore, Hawaii
Board of Water Supply, City and County of Honolulu
Honolulu, Hawaii

The City Board of Water Supply is constructing water line improvements serving the Hale'iwa community of the North Shore district of the island of O'ahu. Work involves constructing four (4) water line segments along Kamehameha Highway near Hale'iwa Beach Park along with some residential streets in the area.

SSFM prepared and processed land use permits required for this water line project because of its location along the shoreline and across several major streams. These permits consisted of: 1) Special District Permit (Minor) for the Hale'iwa Special District; 2) pre-construction notification for coverage under Nationwide Permit No. 12 (Utility Line Activities); and 3) a Noise Variance from the State Department of Health for construction work at night.

Other work tasks associated with this project consisted of: 1) consulting with the SHPD regarding archaeological issues and obtaining approval of a monitoring plan, 2) obtaining confirmation from the City DPP that the project is exempt from Special Management Area requirements, and 3) presentations to the North Shore Neighborhood Board and the Haleiwa Main Street association.



Miyoshiike Hawaii Koi Farming Project
Mililani, Hawaii
Japan Koi Online, Inc.
Menifee, California

Japan Koi Online, Inc. developed a koi farm in the Mililani Agricultural Park. The first phase of this project consisted of 10 acres with an additional 40 acres planned for expansion in the future.

SSFM assisted the Client in completing design work and permitting to allow for its construction. This work consisted of obtaining an exemption from a City grubbing and grading permit under a Cooperative Agreement for the Mililani Agricultural Park with the West Oahu Soil and Water Conservation District. A conservation plan was developed and approved by this District prior to its construction in consultation with the Natural Resources Conservation Service.

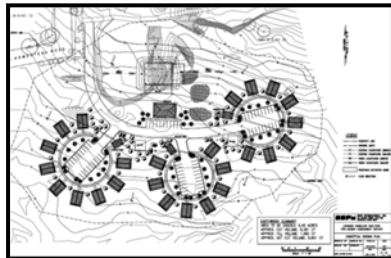
A wastewater permit from the State DOH, Wastewater Division was also obtained. Work consisted of consultation with the State DOH, and preparing an engineering report and permit application that was subject to their rules and requirements. The engineering report addressed both the treatment of wastewater from the koi farm along with the disposal of treated wastewater.

PLANNING PROJECT EXPERIENCE



Hilo Bayfront Beach Park Master Planning and Redevelopment Hilo, Hawai'i

SSFM provided Project Management and Civil Engineering services for the Hilo Bayfront Beach Park Master Planning and Redevelopment project. Hilo Bayfront Beach Park, a quarter-mile of black sand beach, is the center of canoe racing and other activities such as kayaking, windsurfing, thrill craft and small sailboats for all of East Hawai'i. Currently, the canoe halau structures lack building permits, and because of their location within the VE Flood Zone, they would not be able to receive permits with their current design



Leeward Homeless Shelters – Our Lady of Keaau Site DAGS Job No. 12-33-7276 Our Lady of Keaau, Makua

SSFM was the Project Manager, Planner, and Civil engineer for pre-design services for a proposed transitional housing facility at the Our Lady of Keaau site in Makua. Tasks included site investigations, topographic surveys, infrastructure layout and cost estimates. Estimated construction cost \$7 million.



Keauhou Mauka Land Use Commission Petition Support Kahalu'u-Keauhou, North Kona, Hawai'i Kamehameha Investment Corporation

Provided planning and civil engineering services in support of Kamehameha Investment Corporation's Keauhou Mauka project. The 488-acre project includes a 300-400 lot residential subdivision, portions of a previously permitted golf course, and related amenities. Planning services included coordination of work efforts by project team members for the Land Use Commission petition on behalf of the owner. SSFM also prepared the Preliminary Engineering Report in support of the petition.

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Representative GIS Project Experience

The following is a list of representative projects where SSFM provided a combination of GIS and Information Technology services:

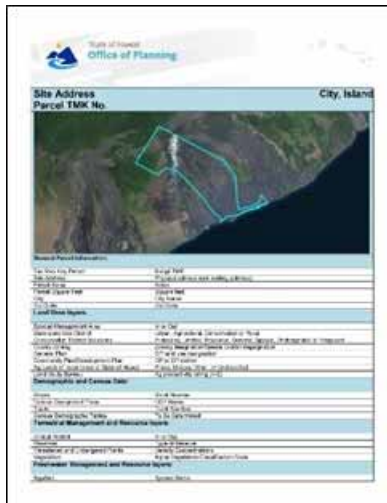
GIS PROJECT EXPERIENCE



St. Francis Hospital Program Management and Development Support, Liliha Campus, Honolulu, Hawaii

SSFM provided services required for the Due Diligence Report of the existing site conditions at the St. Francis Health Systems Hawaii Liliha Campus. The report included research of existing literature/documents on the site conditions as follows: (1) Topographic Survey or other surveys; (2) Environmental documents; (3) Location and capacity of existing utilities (i.e.: water, sewer, drainage, electrical, gas, phone, cable, etc.); and, Plans, specifications and other design related documents associated with buildings/structures constructed on the campus. The final deliverable included the hard copy report as well as an interactive Geographic information system (GIS) allowing St. Francis Facilities Management to easily reference all information via secured web service (GIS Online).

Estimated Cost: Not Applicable



Coastal and Marine Spatial Analysis Tool Statewide Hawaii

SSFM was the Prime Consultant for the Development of a Coastal and Marine Spatial Analysis Tool (Analysis Tool). This Analysis Tool shall incorporate web-based GIS technology, and produce spatial and tabular information for governmental planning and permitting purposes. The Analysis Tool examined regulatory criteria derived from state statutes, county ordinances, and administrative rules within existing processes. The tool produced information in electronic form regarding the environmental conditions and human activities in the area where a specific permit is issued.

Estimated Cost: \$148,756 (fees)



Lihue Development Plan Update Island of Kauai, Lihue, Hawaii

SSFM updated the existing Lihue Development Plan which included: formulation of Special Planning areas and land use community related special studies/policies/mapping pertaining to economic, housing, agriculture, recreation, social, environmental, culture, and historic resources, infrastructure, traffic circulation, demographics, growth projections and scenarios and build out analyses, urban design, and other land use issues, analyses of community zoning issues, smart growth concepts and implementation alternatives; public participation/education and meeting facilitation; geographic information systems (GIS) mapping and new layer development; consistency/implementation of County General Plan

GIS PROJECT EXPERIENCE



recommendations pertaining to region; and consideration of policy and design recommendations and implementation strategies proposed by the Lihue Town Core Urban Design Plan, the Lihue-Hanamaulu Urban Design Plan, the Lihue Civic Center Master Plan, the Sustainable Design Assessment Team (SDAT) Report, and other applicable public facilities and transportation plans relating to the project area.

Estimated cost \$700,000 (fees)



**Hawaii State Civil Defense Emergency Warning Sirens Statewide Planning Phase 2
Various Locations in Hawaii**

SSFM was the Prime Consultant responsible for securing site approvals for approximately 200 sites Statewide, including government permits/approvals, landowner approvals for each site, and assisting in preparation of the disposition documents. This work also included the Installation of new composite poles, installation of new digital sirens, and removal of existing pole/siren where required. GIS work involves developing a system for DAGS to utilize the State ArcGIS Online platform for the State DOD Emergency Warning Sirens Modernization Program for the purpose of improving efficiency of file management and file sharing within the DOD and DAGS project management team.

Estimated Construction Cost: \$16 million



**Facilities Project Management and Tracking Database System for the Department of Education
Statewide Hawaii**

SSFM was the Prime Consultant for the development of a project management tracking system with software applications that consisted of the tools to identify, catalogue, and report on the condition and status of facilities at all 256 public schools statewide. The purpose of developing the Facilities Project Management and Tracking Database System (aka: FACTRAK) was to support the strategic goal of providing a safe environment for students to learn. It enabled the DOE to inventory and monitor assets, assisted in planning managing resources. The custom applications developed include ESRI's ArcIMS Geographic Information System as well as .NET and .ASP web programming which allowed for an accurate inventory of assets within its exact location (global coordinates).

Features: Online GIS
Notable layers include all schools, high school boundaries, political boundaries, parcels and roads

GIS PROJECT EXPERIENCE

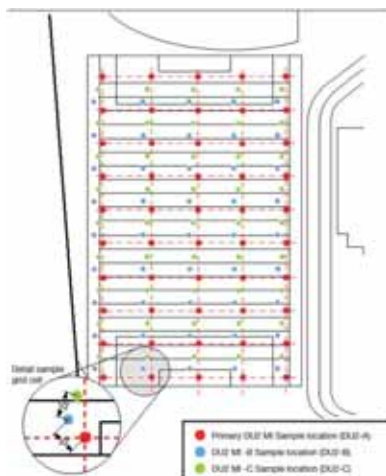


**Kilauea Elementary School Historic Cafeteria Relocation
Environmental Assessment
Kilauea, Kauai, Hawaii**

SSFM provided professional planning services for the development of a new cafeteria, relocate the existing cafeteria building, and implement accessory improvements at Kilauea Elementary School. In addition, the planning work included an Environmental Assessment that incorporates the May 1999 Kilauea Elementary School Master Plan (MP) prepared by Yamasato, Fujiwara, Aoki & Associates Inc.

GIS Uses:

- Features:*
- Visualization in EA, Public Mtg and KHPRC Presentation
 - Notable layers include Aerial Photos, Zoning, Historic Buildings, Exceptional Trees, Flood



**Ewa Makai Middle School
Environmental Assessment
Ewa, Oahu, Hawaii**

SSFM was the Planning Consultant responsible for the preparation and processing of an Environmental Assessment (EA) in accordance with State environmental requirements for this new school facility. The EA was prepared to comply with State Chapter 343, HRS regulatory requirements and the State Department of Health's Title 11, Chapter 200, Administrative rules.

- Features:*
- EA Figures and Hazardous Soils Testing
 - Notable Layers include Aerial Photos, Soils Testing



**West Oahu / Farrington Highway Guideway Design-Build Project
Environmental Constraints Maps
Kapolei to Waipahu, Oahu**

The SSFM Planning Group was responsible for environmental compliance of this segment of the guideway, the first segment of the Honolulu High Capacity Transit Corridor (HHCTC) Project. Services involved preparing a Design Environmental Compliance Plan and geo-referenced database of several hundred mitigation and permit conditions. A key element was preparation of Environmental Constraint Maps using ESRI's GIS platforms, ArcReader and ArcMap. These ECP maps were a tool that enhanced design engineers and reviewers to communicate with each other, identifying risks and mitigation conditions. The user-friendly format allowed users to visualize mitigation requirements as they would appear in the field and then drill down to original source and reference documents.

- Features:*
- Over 25 separate layers
 - GIS Advantage: Data Integration, Mitigation to Design Interface, and Unlimited accessibility

GIS PROJECT EXPERIENCE



Design-Build Queen Kaahumanu Highway Widening, Phase 2 Kona, Hawaii

SSFM led the Design Team for this Design Build project. The project included: design and construction services to widen Queen Kaahumanu from the existing two (2) lanes to a four (4) lane divided highway. SSFM prepared and maintained an accurate geo-referenced database of this project in ArcServer and ArcMap. This involved collecting all public geo-referenced information within the project area and developing accurate layers containing this project-sensitive data. The GIS work mainly involved the mapping and proximity analysis of sensitive archaeological and cultural sites to the design. This involved using GPS to verify and document the locations of the sensitive sites, the compilation and integration of multiple program files into a single GIS platform, and publishing geo-referenced data maps using ArcServer to make all information available to the entire Project Team via the internet.

Features: ArcServer Configuration and Deployment, Creation of Archaeological and Cultural Layers, Integration of Design into ArcMap, Data Server Hosting & Maintenance, Use of GPS with Sub-Meter Accuracy, Web-GIS User Interface Customization and Development



Hawaii Island Flood Hazard Mitigation Plan Hilo, Hawaii

SSFM was contracted to assist the County of Hawaii (County), Planning Department, to develop a Flood Hazard Mitigation Plan, which will be a component, or portion thereof, of the County of Hawaii's Natural Hazard Mitigation Plan. SSFM conducted a field investigation based on Repetitive Loss Data provided by the Federal Emergency Management Agency. We were responsible for taking digital photographs, digitizing any Flood Insurance Maps that were not previously Digitized by FEMA and coordinating with various agencies for critical structure and highway location data. The data collected was analyzed for future mitigation of flooding and incorporated into an overall Flood Mitigation Report. SSFM provided all GIS shape files and Meta Data required for the Overall County of Hawaii Flood Mitigation Report.

Features: FIRM Map Creation, Creation of all Critical Structure Layers, Creation of 100 year flood data layers, Integration and Creation of Parcel and Community related layers, As Needed User Training

GIS PROJECT EXPERIENCE



**Benchmarking US Insular Areas
Federated States of Micronesia, Republic of Palau, Marshall
Islands, American Samoa and the Northern Marianas**

SSFM was responsible for conducting a study which determined criteria for the establishment of benchmark indicators, and assigned benchmarks for various government infrastructure and public facilities in the U.S. Insular areas. The benchmark indicators were measureable and expressed in quantitative terms using ESRI's ArcView as its platform software. This was done for Tutuila in the Territory of American Samoa, Ebeye and Majuro in the Republic of the Marshall Islands, Kosrae, Pohnpei, Chuuk State and Yap Islands in the Federated States of Micronesia, Saipan in the Commonwealth of the Northern Marianas.

- Features:*
- Creation of all Infrastructure Layers (Airport, Hospitals, Roads, Schools, Harbors, and Government Buildings), including the digitization of site plans and linked photographs.
 - Customization of Benchmarking rating system and condition trend analysis
 - User Training on GPS use, Digital Photography use, rating system and GIS data capture and later creation (1 week long)



**Kapaa-Kealia Bike and Pedestrian Path
Kapaa, Kauai, Hawaii**

SSFM was responsible for the overall project management of this project which included development of a master plan, Environmental Assessment, and discretionary land use permits. Master Plan development included inventory of shoreline conditions, conducting community workshops on the development of path alternatives, amenities, developing plans and perspective drawings for path and amenities, GIS data base and 3-D modeling of route, and having a public informational meeting.

- Features:* GIS Programming



**Hawaii Island Commercial Harbor Master Plan
Kawaihae Harbor and Hilo Harbor
Island of Hawaii**

SSFM was the Prime Consultant responsible for the formulation of commercial harbor master plans and the development of critical commercial harbor infrastructure (e.g., piers, cargo yards, passenger terminals, etc.) at Kawaihae and Hilo Harbors. The work in Hilo was primarily an update of the existing Masterplan. The work at Kawaihae included integrating multiple uses such as military, small boats, commercial, future passenger and possible relocation of fuel storage plus internal circulation issues.

- Features:* GIS Programming

GIS PROJECT EXPERIENCE



**Paia Bypass Road Project, Master Plan and EIS
Paia, Maui, Hawaii
Project No. STP-361-1 (11)**

SSFM was responsible for community involvement, planning, and conceptual design analyses, preliminary engineering services necessary to prepare and process an Environmental Impact Statement (EIS) meeting both Federal and State requirements for the "Paia Bypass Road" for the Paia Community on the Island of Maui. Work involves GIS of constraints and 3-D modeling.

Features: GIS Programming



**North Kona Improvement District Implementation Plan
County of Hawaii**

SSFM assisted the County of Hawaii with a broad regional sewerage master plan including all un-sewered areas of the North Kona region extending from Kealahou and Kaloko to Honokohau Harbor and north to the Lands of Kau. SSFM utilized GIS to develop a specific and detailed implementation plan for an improvement district including necessity and feasibility, proposed boundaries and listing of proposed real properties subject to assessment. Data, survey, maps, drawings, details and specifications as required.

Features: Creation of all Project related proposed alternatives and Integration and Creation of Parcel and Community related layers

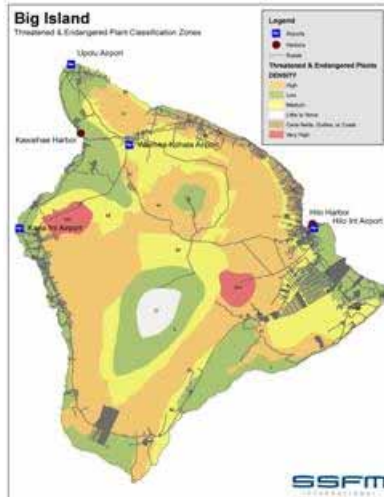


**Statewide Fiber Optic Ductline Project
Kauai, Oahu, Molokai, Lanai, Maui, & Hawaii
State of Hawaii**

As the prime consultant in the construction of underground fiber optic ductlines SSFM used GIS to assist in the planning, project management and design. The project is located within the rights-of-ways of State Department of Transportation (DOT) highway facilities, various County roadway facilities, and some Department of Hawaiian Home Lands (DHHL)-owned roads to provide service to DHHL homestead areas on the various Islands. The network will be an all-fiber optic cable network, and it will be independent of any existing networks in the State of Hawaii. Construction activities shall consist of a combination of open trench construction, horizontal directional drilling, and bridge attachments. Bridge attachment work includes the analysis of the effects of the attachment of the proposed fiber optic ductline and verification of the adequacy of the existing bridge superstructure elements affected by the attachment.

Features: Creation of all Project Related Data Layers State Wide
Integration of Parcel and Community related layers available online
As Needed User Training

GIS PROJECT EXPERIENCE



**Statewide Transportation Plan
Job STP 1-900-PLAN**

SSFM was the Prime Consultant for this contract with the State of Hawaii Department of Transportation that addressed the formulation of a statewide, multi-modal transportation plan. The plan intended to provide transportation professionals and decision makers with a framework to be used in the planning of Hawaii’s transportation system. The work included extensive public involvement and outreach, collaboration with the modal divisions of the HDOT and its county partners, and a detailed research effort on all of the related technical issues.

Features: Map of natural resources, environmental constraints, critical habitat, land management areas, and conformity with plans prepared by natural resource and land management agencies

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County of Hawaii
Housing and Community Development
STATEMENT OF QUALIFICATIONS
Fiscal Year 2023-2024

#6: Names & Phone Numbers of Up to 5 Clients



OH.4) COMMUNITY PLANNING
(Environmental Assessment)

Client Information

We approach each project candidly and never promise more than we can deliver; we listen to our clients and look out for their best interests; and, we will always be responsive.

Name & Title	Agency/Company Address	Telephone No. & Email Address
Mr. Jerry Watanabe Director of Facilities Planning & Construction	University of Hawaii at Hilo Facilities Planning & Construction 200 W. Kawili Street Hilo, Hawaii 96720-4091	(808) 974-7595 jerrywat@hawaii.edu
Mr. Ken Tatsuguchi Planning Branch Manager	State of Hawaii Department of Transportation Highways Division, Planning Branch 869 Punchbowl Street, 5 th Floor Honolulu, Hawaii 96813	(808) 587-1830 ken.tatsuguchi@hawaii.gov
Ms. Lea Kaiaokamalie Long Range Plan Branch	Planning Department County of Kauai 4444 Rice Street, A473 Lihue, Hawaii 96766	(808) 241-4061 lkaikamalie@kauai.gov
Ms. Kelly Cruz Engineering Branch	City & County of Honolulu Department of Transportation Services 650 S. King Street, 3 rd Floor Honolulu, Hawaii 96813	(808) 768-8320 kcruz@honolulu.gov
Ms. April J. Surprenant, AICP, AIA Manager of Long Range Planning & Board of Appeals	County of Hawaii, Planning Department 101 Pauahi Street, Suite 3 Hilo, HI 96720	(808) 961-8131 april.surprenant@hawaiicounty.gov

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County of Hawaii
Housing and Community Development
STATEMENT OF QUALIFICATIONS
Fiscal Year 2023-2024

#7

Other Pertinent Information

- Qualifications & Experience
- Performance Awards & Commendation Letters



OH.4) COMMUNITY PLANNING
(Environmental Assessment)

CORE COMPETENCIES

SSFM International is a Hawaii-based, minority-owned business founded in 1959, incorporated in the State of Hawaii in 1961, and 100% employee owned. We provide professional services for program development, project management, planning, civil engineering, structural engineering, traffic engineering, and construction management assignments throughout the Pacific Region. In addition to the headquarters office in Honolulu, SSFM has offices on the islands of Hawaii, Maui, and Kauai, as well as in Guam, Okinawa (Japan), and Manila (Republic of the Philippines). SSFM's core competencies include the following:



GENERAL QUALIFICATIONS

Our practice is far reaching, but we're always reverential to our Hawaiian Island roots. We find ways for our clients to succeed and manage simple to complex projects from concept and planning through design and construction, navigating procedural and logistical hurdles to realize highly effective conclusions.

Our six decades of experience in the Pacific Region means we know the people, the places, the customs and the challenges of bringing projects to life throughout this region. Our people are connected to the local opportunities, issues and challenges. We have a vested interest in sustainability and resiliency for each community.

As we enter our 7th decade, we face a dramatically changing world. The threats to our islands make preserving our environmental riches as imperative of the way we practice. We are committed to incorporating long-term, sustainable, and resilient solutions in all that we do.

Our practice has solidified the foundation of our firm and established the core values that guide our professional and personal behavior. Our values drive how we treat our clients, our communities and above all, each other.

Our corporate sustainability goals include:

- a commitment to reduce the cost of energy, operation, and maintenance
- to efficiently use water resources and other natural resources
- to reduce waste and pollution
- to increase building and component durability
- to use locally available and produced building products
- commitment to the LEED (Leadership in Energy & Environmental Design) standard, as a member of the U.S. Green Building Council

Our state-of-the-art technologies and extensive in-house computer resources enable the SSFM staff to fully plan, manage and execute in order to optimize projects and integrate team effort on any scale and of any complexity. Our commitment to maximizing the use of technology in all aspects of our operations permits us to provide timely, cost-efficient quality work products that meet or exceed applicable regulations and industry standards. With information technology firmly embedded throughout our team delivery business practice, SSFM is recognized for being the program and project management, planning, and engineering consultant of choice for numerous Owners and Clients.

Major strengths which SSFM brings to each project assignment are:

- Mobility and flexibility
- Our aggressive geographic approach
- Our willingness to explore and implement non-traditional project approaches
- A highly-qualified technical staff to meet all Client expectations
- The involvement of principals and senior project managers in a hands-on manner so that project commitments and decisions are made in real time
- Our commitment to meet or beat tight schedules
- A competitive advantage for our Clients due to our and overriding commitment to succeed
- The SSFM attitude of partnering with the entire Project Team in order to successfully deliver project assignments

PROJECT MANAGEMENT QUALIFICATIONS

Project Management is more than a primary core competency of SSFM – it is *the* critical component of our strategy to ensure success time after time for our clients and their projects. We offer proven processes and highly qualified personnel, all in-place to provide **excellence in project management**. We fully realize that we are judged on our overall performance—from management to overall quality, real-time responsiveness and cost controls. Bottom line, we recognize this simple reality: SSFM is successful only when our clients' projects are successful.



SSFM brings to bear a staff of experienced senior project managers with demonstrated track records of successfully managed projects of varying sizes and complexities. Our senior project managers are diverse in their qualifications and experiences. As a direct result, they are better able to provide a wide range of highly effective solutions on behalf of our clients. Most important of all, the common approach by all of our senior project managers is to look at individual project assignments through the eyes of the client.

Project management services provided by SSFM include:

- Owner's Representation Services
- Contract Administration

-
- Project Coordination
 - Basic Criteria Documentation
 - Quality Assurance/Quality Control
 - Infrastructure and Facilities Master Plans and Feasibility Studies
 - Condition Assessments

As Project Managers, we assist Owners/Clients in defining the project, developing the scope of work, preparing requests for proposal (RFP) or requests for qualifications (RFQ), and in assisting with the selection of required professional services. Ultimately, we provide our combined expertise as a representative of the Owner/Client and manage the project on their behalf.

Our Project Managers are responsible for the following:

- Communicate routinely, assist with implementation of project delivery strategies, and assist with brainstorming and development of solutions.
 - Ensure project control via overall coordination and management of projects, from inception through completion.
 - Develop the quality control section of the Project Management Plan to identify the specific level and quality control of the engineering services, conceptual design and/or environmental planning study.
 - Identify Stakeholders and determine their requirements; manage and influence those requirements to ensure a successful project.
 - Analyze and fully understand the specific mission-needs of the Project, and task a matrix team of multi-discipline professionals.
 - Articulate the Client's goals and objectives to the Project Team members and external groups.
 - Provide clarification and accurate documentation of the scope of work for the entire Project Team.
 - Execute planning of the project in all aspects of definition, schedule and budget.
 - Coordination and scheduling of sub-consultants.
 - Monitor the progress of the project to determine actual work accomplished versus cost-to-date versus budget.
 - Perform appropriate actions to maintain project schedule and budget.
 - Record meeting minutes and memoranda of significant events and decisions.
 - Serve as the single point-of-contact for the Client.
 - Coordinate all conceptual, design and technical reviews.
 - Conduct quality assurance audits.
 - Coordinate, prepare, and print all contract documents.
-

PLANNING QUALIFICATIONS

The Strategic Services Group (SSG) at SSFM provides planning, traffic engineering, and environmental services for a wide range of projects in the State of Hawaii and the Pacific Region. SSG is composed of highly qualified and experienced professionals with the requisite technical qualifications and diverse project experience to effectively design, manage, and conduct complex planning processes. Our projects frequently bring together multi-disciplinary teams that work with government agencies and community members to identify shared visions and implementable solutions for transportation, infrastructure, land use, climate change, and other issues important to communities.



Our aim is always to devise effective and innovative solutions that are transformative to a project, mitigate obstacles, and deliver results. We build in context-sensitive and inclusive community engagement processes to build and document support from key stakeholders. Tools such as geographic information system (GIS) mapping, websites, story maps, graphic renderings, branding, and other visual elements are incorporated into all of our projects for effective communication and transparency. We also utilize work plans, schedules, and other project management resources to monitor project status, keep clients and project teams informed and provide responsive communication.

We offer a full suite of environmental planning and permitting services for projects at all scales, from large-scale master planned developments to resource management and restoration projects. Our environmental planners have an excellent understanding of land use, environmental and public participation requirements and are able to deliver results under demanding project schedules and constraints. We develop a comprehensive scope of services for the necessary work tasks and agency requirements relative to the circumstances for each unique project, including its surrounding community area.

Our range of services includes:

Long-Range Community and Land Use Planning

SSFM has led a number of award-winning long-range planning processes at the State, County, and regional levels. Our processes are innovative, inclusive, and transparent, with the intention of bringing together technical, agency, and stakeholder goals and knowledge to create plans that are implementable and embraced by the community. We have a proven track record for completing complex plans on time and within budget, as well as establishing groundwork for implementation.

Federal NEPA and State HRS Chapter 343 Compliance (EIS, EA, and Categorical Exclusion)

We are well versed in the regulatory requirements and procedures associated with preparing and processing NEPA environmental compliance documents, including State of Hawaii HRS Chapter 343 documents. In addition to being the primary authors, we manage specialized teams preparing technical studies involving traffic, archaeology, culture, biological resources, socioeconomics, air quality, noise, marine and fresh water quality, and hazardous materials. We coordinate all project team work tasks and deliverables to meet established schedules, achieve project milestones, and ensure quality of reports. We are experienced in developing environmental mitigation tracking databases for use during design and construction.

Assistance with Federal NEPA Agency Consultations

We regularly prepare for and assist federal agencies who need to conduct consultations in compliance with federal and requirements for Section 7 of the Endangered Species Act, Section 106 of the Historic Preservation Act, Section 4(f) of the Department of Transportation Act, Section 404, Section 6(f) of the Land and Water Conservation Act and Essential Fish Habitat. We understand the importance of conducting consultations early and often with resource agencies.

Discretionary Land Use Approvals and Permitting

We maintain a close working relationship with Federal, State and County resource agencies that accept, process and approve discretionary permits such as, USACE Honolulu District Section 10 and 404 Permits, Department of Health Section 401 Water Quality Certification, Coastal Zone Management, County Special Management Areas and Shoreline Setbacks Areas, zoning and land use approvals.

Policy Planning, Inter-agency Agreements and Creative Re-Organization

We utilize our experiences and network to seek collaboration for the benefit of all parties. A significant element of SSFM's value to clients is over a half century of relationships and knowing who to call. Success means that new strategies achieve client goals while adding to the benefits and returns for all collaborators, partner agencies, stakeholders, and the community at large.

Traffic Engineering, Traffic Impact Analysis and Transportation Planning

Our Traffic Engineers provide analysis and engineering design to forecast, model and plan for multi-modal transportation systems. We are experts at identifying and programming effective complete streets improvements to maximize multi-modal opportunities and efficiency. We provide transportation planning to help transportation systems effectively and efficiently move people and goods, influence urban development, affect economic vitality, and impact quality of life.

Climate Change Adaptation and Resilience

SSFM has been instrumental in projects to address resilience and climate adaptation across the state. This work has included preparing an economic recovery strategy to safeguard Hawai'i's small businesses from natural disasters, leading a project to explore managed retreat as a key part of Hawai'i's climate adaptation strategy, and establishing resilient design principles for urban development in Honolulu. Our team stays at the forefront of climate science and policy through our projects and participation in events and conversations statewide.

Master & Implementation Planning

We provide long-range strategic guidance for orderly development and support to guide projects through environmental, government and community processes.

Environmental Planning & Compliance

We provide environmental planning and impact analysis that result in strategies which are contextually sensitive, sustainable and garner approvals.

Context Sensitive Solutions, Public Engagement and Outreach

We develop innovative and inclusive public and agency participation plans for managing community relations, public outreach and stakeholder involvement as necessary to meet NEPA or other requirements. We engage stakeholders through a variety of digital and in-person methods to gather and document input and support throughout the planning process.

GIS, Graphics, and Mapping

We provide a comprehensive suite of graphic design services to effectively communicate project goals and proposed solutions. We utilize the latest practical applications of GIS in projects which may include use of custom applications, out-of-the-box solution applications, and real-time data entry and sharing via cloud storage databases.

Transit-Oriented Development

We provide master planning, engineering, project and construction management to take TOD projects from inception through construction.

**PUBLIC
PARTICIPATION &
INFORMATION
QUALIFICATIONS**

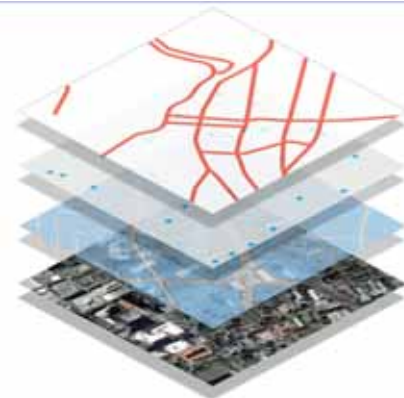
Public participation and the timely release of pertinent information is crucial for a major public improvement or private sector improvement involving public infrastructure since projects of this nature directly affect not only the facility users but also the surrounding businesses and residents. All of these stakeholders need to be kept fully informed, updated and involved in the process. Adequate public input and communication greatly reduces both the public's collective concerns and potential project delays due to misinformation. Many times the goal in our public participation process is to achieve higher levels of commitment toward change.

Our basic approach involves:

- Interactive Approach: Establishing and maintaining throughout the process meaningful regular and interactive contact among all of the parties.
- Work Sessions: Regular work sessions involving all of the interested parties.
- Consensus Building Process: A process that includes initial meeting with the entire decision-making group, interviews and/or focus groups, and charrettes/workshops.
- Our Principals and Project Managers have extensive experience in preparing and delivering presentations to Clients, Facility Users, Owners, and to the general public for project planning, announcements, utility outages and other potential topics of concern.

**GIS AND
INFORMATION
TECHNOLOGY
SYSTEMS
EXPERIENCE &
QUALIFICATIONS**

SSFM provides application based GIS and information technology services with a focus on providing cost-efficient, flexible, and user-friendly desktop, enterprise, or web-based management tools. These services provide our clients with efficient management of substantial amounts of geo-based information data which allow our clients to successfully manage complex and large-scale project development and operations. We help our clients collect data and implement visualization tools which use state-of-the-art software and systems.



Representative services that SSFM provides are:

- Geographic Information Systems (GIS)
 - Document and Data Asset Management
-

- System Integration and Web-based Enterprise Systems
- Graphic Design and Presentation Development
- 3D Rendering and Modeling
- Web Development and Hosting

SSFM works closely with clients to design and implement cost-effective spatial solutions and routinely uses GIS to capture, manage, manipulate, analyze, model and display geographically referenced data. We integrate GIS with other capabilities such as Global Positioning Systems and numerical modeling. SSFM's GIS and IT specialists will design the architecture and data schemas, integrate functional systems and deploy robust database solutions, including Oracle, MS Access, SQL and other database technologies. We will customize maps, views, user interfaces and databases to meet client needs and specifications as well as planned and developed .NET and .ASP web-based solutions for consolidated systems.

SSFM has applied GIS for:

- Land development project assignments including planning, engineering, marketing, and operations/maintenance databases
- Facilities and infrastructure planning, engineering, and operations/maintenance databases
- Database archiving and retrieval
- Document Management
- Public Outreach and Hearings
- Environmental Mitigation Compliance Tracking

CIVIL ENGINEERING QUALIFICATIONS

Guided by our deep commitment to innovation, technological leadership, professionalism, responsiveness, and teamwork, SSFM International, Inc. is widely recognized for benefiting its clients with innovative, unique, and award-winning civil engineering projects of the highest quality and value. In this way, SSFM continually strives to be at the forefront of this field.



The civil engineering aspect of our business includes timely, cost-effective and innovative services for planning and design of site development, transportation systems, and utility infrastructure projects for both public and private sector clients. Our services encompass all phases of project development from feasibility assessments through design development and construction. Our civil engineering experience includes the following:

- ✓ Aviation Facilities, including Runways, Taxiways, and Aprons
- ✓ Context Sensitive Design
- ✓ Geospatial Analysis and Mapping, including Surface Modeling and Earthwork Analysis
- ✓ Highways and Roads, including Complete Streets
- ✓ Infrastructure Mapping and Modeling
- ✓ Land Development
- ✓ Ocean Outfalls
- ✓ Parks and Recreational Facilities
- ✓ Permitting, including NPDES, UIC, Corps of Engineer, Water Quality Certifications, SCAP
- ✓ Site Development, including Master Planning and Site Selection Studies

-
- ✓ Stormwater Management
 - ✓ Sustainable Design
 - ✓ Traffic Studies
 - ✓ Utility Systems, including Water and Wastewater Systems
 - ✓ Waterfront Facilities

SSFM is also well versed in Low Impact Development (LID). LID is an approach to land development that works with nature to manage stormwater runoff close to its source to protect water quality. The goal of LID is to employ techniques such as preserving and recreating natural landscape features, minimizing site imperviousness to create functional and visually appealing site drainage that treats stormwater as a resource rather than a waste product. Examples of ways in which SSFM has implemented LID include bio-retention facilities, rain gardens, vegetated rooftops, rain barrels, and permeable pavement. By implementing LID principles and practices, the landscape functions close to predevelopment hydrologic conditions, reducing surface runoff, pollution damage to lakes, streams and coastal waters, and the need for conventional drainage infrastructure.

Our project delivery services include:

- ✓ Infrastructure and Facility Master Planning
- ✓ Condition Assessments
- ✓ Conceptual Designs
- ✓ Schematic Designs
- ✓ Contract Documents Preparation
- ✓ Construction Administration

Our engineers have extensive experience in design-build, design-bid-build, and design-assist-build delivery of projects. Complementing our extensive civil engineering capabilities, SSFM engineers are expected to apply “out-of-the-box” thinking that lead to comprehensive solutions to problems and challenges. These skilled engineers include former government personnel who maintain close working relationships with various government agencies.

Key members of our Civil Engineering Group have planned, designed and managed construction projects in Hawaii, throughout the Pacific Region and in a several Asian countries.

TRAFFIC ENGINEERING QUALIFICATIONS

SSFM provides a full range of traffic engineering services, blending practical approaches with technical innovations to develop context-sensitive solutions that work for the community and our clients. We focus on improving transportation system performance and providing the best value for accommodating multimodal users, improving operations, and solving capacity problems. Our traffic engineers and civil engineers have extensive experience in planning and designing a wide range of multimodal transportation projects for both public and private sector clients.



We have significant experience in transportation planning, traffic operations analysis, and transportation design projects and have been a statewide leader in advancing complete streets policies and principles, as well as Vision Zero. SSFM was instrumental in establishing the complete streets design standards and programs for the City and County of Honolulu and Hawaii

County.

Traffic Planning

- Complete streets and development of multimodal design standards
- Multimodal transportation planning
- Route planning
- Traffic engineering studies and traffic management planning
- Transportation corridor studies
- Transit system studies
- Circulation studies
- Route location studies
- ITS planning and alternative development
- Access control management

Traffic Operations Analysis

- Transportation modeling and analysis
- Traffic simulation of signalized arterials and freeway corridors
- Roundabout and advanced interchange/intersection design

Transportation Design Services

- Roadway geometrics
- Intersection reconfiguration
- Signage
- Traffic calming
- Bikeways and bike paths
- Traffic signals
- Traffic control
- Bus bays and pads

SSFM is active with the Institute of Transportation Engineering (ITE) and is knowledgeable in the design guidelines of the American Association of State Highway and Transportation Officials (AASHTO) and Manual on Uniform Traffic Control Devices (MUTCD). We have experience with various CAD and traffic data collection analysis programs in addition to traffic software packages including Highway Capacity Software (HCS), Synchro traffic signal software, SimTraffic traffic simulation software, TransCAD transportation planning software, and VISSIM multi-modal traffic simulation software.

**STRUCTURAL
ENGINEERING
QUALIFICATIONS**

Our structural engineering services encompass the planning and design of new construction, renovation, alteration, rehabilitation or repair of buildings, bridges, temporary structures and other structural systems. We are familiar and experienced in designing structural systems constructed of steel, reinforced concrete, pre-cast and pre-stressed concrete, post-tensioned concrete, concrete masonry, and timber.



The extensive breadth and depth of our structural engineering projects span throughout Hawaii, the Pacific Region and Asia, distinguishing SSFM as the firm of choice for many clients.

We provide economical and unique design solutions from conceptual design through construction administration for buildings, public works projects, and related civil structures. Our structural engineering project types include:

- ✓ Airport Terminal Facilities
 - ✓ Antennas and Observation
 - ✓ Munitions Storage Facilities
-

-
- | | |
|--|---------------------------------------|
| ✓ Towers | ✓ Office Buildings |
| ✓ Condominiums & Apartments | ✓ Rehabilitation and Repair Projects |
| ✓ Forensic Structural Investigations | ✓ Repair of Corroded Steel Structures |
| ✓ Golf Course Clubhouses | ✓ Seismic Retrofits |
| ✓ Harbor, Pier and Wharf Facilities | ✓ Shopping & Entertainment Centers |
| ✓ Highway Maintenance Platforms | ✓ Single Family Homes & Townhouses |
| ✓ Highways, Roads, & Bridges | ✓ Underwater Structural Inspections |
| ✓ Hotels and Resorts | ✓ Walls & Retaining Structures |
| ✓ Industrial Facilities & Power Plants | ✓ Warehouse Facilities |
| ✓ Laboratory & Research Facilities | ✓ Wastewater Treatment Plants |
| ✓ Library & School Campus Facilities | ✓ Water Tanks |
| ✓ Maintenance & Operations Facilities | ✓ Waterfront Development Areas |
| ✓ Medical Facilities | ✓ Weapons Assembly Buildings |
| ✓ Multi-Level Parking Structures | ✓ Unique Structures |

Our project delivery services include:

- ✓ Infrastructure and Facility Master Planning
- ✓ Condition Assessments
- ✓ Conceptual Designs
- ✓ Schematic Designs
- ✓ Contract Documents Preparation
- ✓ Construction Administration

Our engineers have extensive experience in design-build, design-bid-build, and design-assist-build delivery of projects.

SSFM structural engineers always foster good working relationships with our clients through close communications, understanding of their expectations, responsiveness, and close support during and after each assignment. We have an in-house network of highly-qualified professionals who have established close working relationships with various agencies and who can provide clients with quick on-site inspections and timely solutions to problems.

To complement our structural engineering capabilities, SSFM emphasizes the continued professional development of its engineers through a variety of special training courses and educational seminars to ensure that they remain on the cutting edge of this discipline.

CONSTRUCTION MANAGEMENT QUALIFICATIONS

SSFM's in-depth technical and management experience with large-scale projects, including architectural/structural (building) and civil engineering projects, gives us the ability to manage myriad complexities during the construction process.



Our core CM Group, responsible for the development of major and minor projects, is comprised of principals, engineers, and technicians who are totally versed in a versatile array of construction issues. This core group provides the leadership capabilities and experiences needed to effectively manage a project. Our management methodology provides an intensely structured participation process that leads to achievement of the client's goals.

The construction management philosophy at SSFM is to serve as the client's representative in **a proactive, no-nonsense, comprehensive manner**. This primary mission is consistently conveyed to all staff members throughout each phase of the project.

- ✓ **PROACTIVE** means that SSFM project personnel continually seek opportunities to improve the quality of construction, anticipate problems before they occur, and recommend realistic solutions in a timely and professional manner.
- ✓ **NO-NONSENSE** means that problems (both potential and real) are openly discussed and addressed in a straight-forward manner. Parties involved are brought together to jointly seek realistic solutions. These procedures are normally established during partnering sessions and or the pre-construction meeting prior to the onset of construction and are reinforced during the weekly meetings.
- ✓ **COMPREHENSIVE** means that each and every function in the construction management scope of work is supported to the satisfaction of the client. This is accomplished through the assignment of qualified and experienced personnel, and the identification of backup personnel to accommodate planned or unplanned absences without interruption of services.

Construction Management procedures at SSFM are clearly established and documented. These procedures are based on requirements of the federal government, military, state government, and city and county government. The procedures are used by SSFM personnel in everyday practice and are continually updated to accommodate new requirements. Prior to reporting to the project site, meetings will be held with the client's project manager to review specific or unique job requirements, and to establish clear lines of communication to assure that the project is constructed as intended.

We are well-versed with the complex *Primavera* computer scheduling program used by many Contractors. Furthermore, for internal project scheduling purposes, we use *Microsoft Project* extensively.

As part of our professional services, we can provide the following construction management services:

- ✓ Advise the Owner on All Aspects of the Project.
- ✓ Review all pertinent contracts to understand responsibilities to the client and the project.

-
- ✓ Constructability Reviews of Contract Documents (Plans & Specifications).
 - ✓ Management and Evaluation of Construction Bids & Recommendations for Award.
 - ✓ Value Engineering Recommendations.
 - ✓ Long lead material issues.
 - ✓ Complete Construction Support Services, Including Conferences & Meetings.
 - ✓ Qualified Personnel to Clarify or Obtain Clarification of Plans and Specifications.
 - ✓ Coordinate and Review Contractor's Work Schedules.
 - ✓ Construction Contract Cost Control Procedures and Reviews.
 - ✓ Construction Progress Inspections.
 - ✓ Review and Quality Assurance of Contractor's Construction Quality Control Services.
 - ✓ Review Contractor's Tests on Materials and Systems.
 - ✓ Materials and Equipment Receiving Documentation.
 - ✓ Review and Document Construction Contract Changes.
 - ✓ Verification of Certified Payrolls and on-site interviews with contractor's staff and their sub-contractors.
 - ✓ Prompt and Appropriate Action on Damage Claims and Complaints.
 - ✓ Complete Construction Phase Documentation.
 - ✓ Substantial Completion and Final Inspection Services.
 - ✓ O&M Manual Development and Facility Start Up Training.
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Performance Awards and Commendation Letters

SSFM International is an award winning firm, serving a wide variety of clients, and is recognized throughout the State of Hawaii and the Pacific Region for high quality project management, planning, design and engineering. We approach each project candidly and never promise more than we can deliver; we listen to our clients and look out for their best interests; and, we care about our work and believe in our product. **For SSFM, quality is an expectation.**

The following is a listing of awards and recognition that SSFM International has received from local and national organizations:

PERFORMANCE & RECOGNITION AWARDS

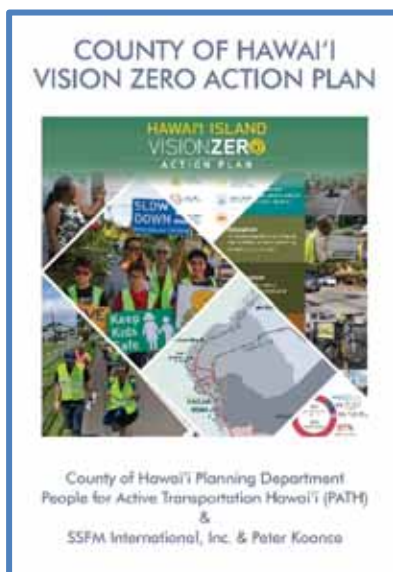


Keukaha Quick Build County of Hawai'i Planning Department

September 2022, recognized by the American Planning Association, Hawaii Chapter. Community-Based Planning Award.

The project represented a State/County collaboration in a predominantly native Hawaiian community. The majority of Keukaha is owned by the State Department of Hawaiian Home Lands, including the schools, roadways, and surrounding residences, which are predominantly Hawaiian Homesteads.

This project sought to promote complete streets principles by transforming the way public rights of way are used for the benefit, health, and enjoyment of all. To achieve this, the continuous walking and biking pathway repurposed space within the existing right of way to provide additional space for pedestrians and bicyclists.



Vision Zero Action Plan County of Hawaii

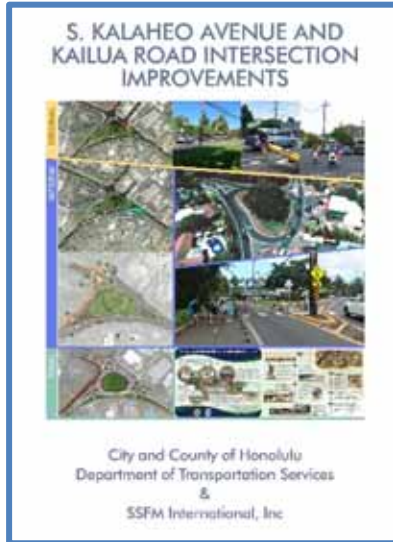
October 2021, recognized by the American Planning Association, Hawaii Chapter. Transportation Planning Award.

The County of Hawai'i's Vision Zero Action Plan identifies a path for the County to achieve its goal of eliminating traffic related fatalities and serious injuries in accordance with Vision Zero, a fundamentally new approach to traffic safety that is being adopted in states and municipalities worldwide.

This Vision Zero Plan is the first to be completed and adopted in the State of Hawai'i. The plan was produced through the efforts of a multi-disciplinary Vision Zero Task Force comprised of representatives from the County and State, as well as emergency response, the health industry, and advocacy.

The Task Force used the data analysis to identify priority Vision Zero actions in four categories: Education and Encouragement, Enforcement, Engineering, and Evaluation. The actions in the Plan are organized into short-term, mid-term, and long-term priorities.

PERFORMANCE & RECOGNITION AWARDS

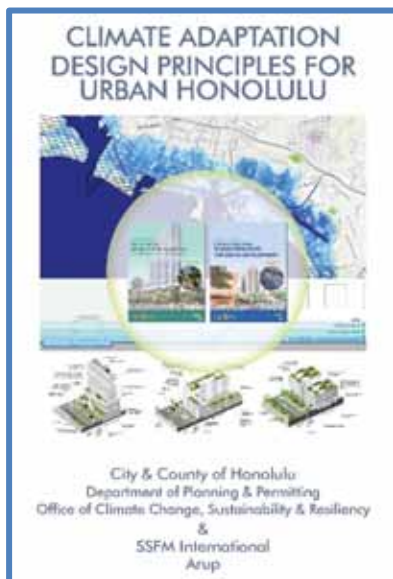


S. Kalaheo Avenue and Kailua Road Intersection Improvements, Kailua, Hawaii

October 2021, recognized by the American Planning Association, Hawaii Chapter. Implementation Award.

The intersection of Kalaheo Avenue and Kailua Road serves as the gateway to Kailua Beach Park and provides the sole vehicular access to the Lanikai neighborhood. Traffic congestion, delayed emergency response, and multimodal safety/accessibility had long been concerns. The Kalaheo Avenue and Kailua Road Intersection Improvements project was initiated by the City and County of Honolulu's Department of Transportation Services (City), under contract with SSFM International, with the goal to address operational and safety concerns at the intersection.

A "Lighter, Quicker, Cheaper" interim pilot project was implemented to reconfigure the stop-sign controlled intersection into a non-standard single-lane "triangle-about" roundabout. The success of the interim pilot project improved the community's understanding of how roundabouts work. It also enabled the City to pursue full reconstruction that will result in a more standard modern roundabout that includes geometric, drainage, and lighting enhancements to improve automobile operations while continuing to prioritize multimodal safety/accessibility.



Climate Adaptation Design Principles for Urban Honolulu Honolulu, Hawaii

October 2021, recognized by the American Planning Association, Hawaii Chapter. Best Practice Award.

The objective of this project was to develop preliminary climate adaptation design guidance for development projects in Honolulu transit-oriented development (TOD) and other urban areas that are vulnerable to sea level rise (SLR). It is intended to provide developers with information and best practices for adapting urban building sites and structures to climate change-related hazards including sea level rise, flooding, heat, and groundwater inundation. This is an initial step toward developing comprehensive climate resilience design guidelines for the City and County of Honolulu ("City"), as called for in Action 14 of the O'ahu Resilience Strategy.

The Climate Adaptation Design Principles project exemplifies the proactive, forward-thinking planning approach needed for municipalities to address the significant challenges posed by climate change. With development of TOD areas along the rail corridor a City priority, DPP TOD Division and OCCSR recognized an urgent need and opportunity to ensure that the impacts of climate change are considered in new development. Guidance was also needed to inform updates to regulations, codes, and policies around built environment resilience, which can take years to implement.

The Background Research and Design Principles documents help outline a path forward for the City while also educating the public and development community about climate adaptation science and best practices. The Design Principles can also be referred to in reviewing

PERFORMANCE & RECOGNITION AWARDS

discretionary permits for planned developments, thereby having an immediate potential effect as the City moves ahead with regulatory updates. Both documents are available for download at www.honolulu.gov/tod.

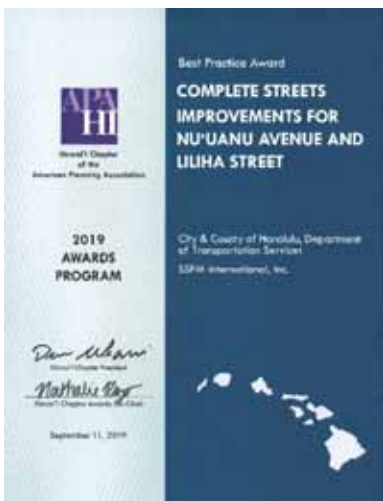


County of Hawaii, Transit and Multimodal Transportation Plan

September 2019, recognized by the American Planning Association, Hawaii Chapter. Transportation Planning Award.

The County of Hawai'i Transit and Multi-Modal Master Plan (Master Plan) presents a set of programs to provide a wider range of transportation options, reduce dependence on the automobile, and reduce the negative effects of transportation on the environment and climate change.

In the first year of implementation, the Master Plan has supported applications for federal grants to purchase buses, state and local efforts for alternative energy for transportation and a wide variety of other efforts. New buses arrive in early 2020 and they will be deployed first on the cross-island route and the Puna hub and spoke, which were top priorities in the Master Plan.



Complete Streets Improvements for Nuuanu Avenue and Liliha Street, Honolulu, Hawaii

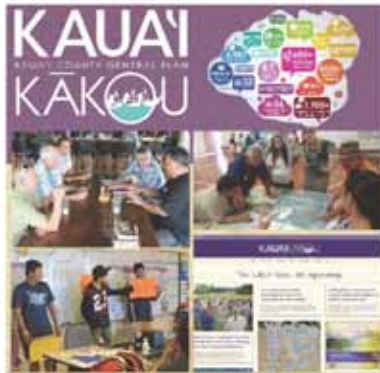
September 2019, recognized by the American Planning Association, Hawaii Chapter. Best Practice Award.

The Complete Streets Improvements for Nu'uuanu Ave and Liliha St project was undertaken by the City and County of Honolulu Complete Streets Program and a consultant team from SSFM International. The project goal was to identify community-driven context sensitive complete streets solutions to enhance livability, safety, and neighborhood character along Nu'uuanu Avenue and Liliha Street.

The project team designed a context-sensitive process that combined technical analysis and educational outreach with community input led by a stakeholder advisory group.

PERFORMANCE & RECOGNITION AWARDS

**KAUAI KAKOU:
KAUAI COUNTY
GENERAL PLAN**



**Update of the Kauai County General Plan
Island of Kauai, Hawaii**

October 2018, recognized by the American Planning Association, Hawaii Chapter as its *2018 Outstanding Planning Project*.

In February of 2018, the update of the Kauai County General Plan was adopted by the Kauai County Council, following a three year planning effort. It was signed into law by Mayor Bernard Carvalho the following month. The plan, entitled Kauai Kākou, was prepared by the Kauai County Planning Department, along with a consultant team led by planners from SSFM International's Strategic Services Group.

The project team deployed an extensive community engagement program that sought widespread participation in developing a new and improved General Plan Framework consisting of a Vision statement, four overarching Goals, nineteen key Policies, 42 Objectives, and 607 Actions. The Objectives and Actions were organized into ten topical areas, or Sectors: The Watershed, Housing, Land Transportation, Critical Infrastructure, Shared Spaces, Economy, Heritage Resources, Energy Sustainability & Climate Change, Public Safety & Hazards Resiliency, and Opportunity & Health for All.

**DOWNTOWN HILO
MULTIMODAL
MASTER PLAN**



**Downtown Hilo Multimodal Master Plan
Hilo, Hawaii**

October 2018, recognized by the American Planning Association, Hawaii Chapter as its *2018 Transportation Planning Project*.

The Downtown Hilo Multimodal Master Plan (DHMMP) was a multi-year planning effort undertaken by the County of Hawaii Planning Department, assisted by lead consultant SSFM International and a team of technical consultants. Hundreds of Hilo residents, organizations, and agencies were participated in the highly inclusive planning process with the collective goal of making Downtown Hilo a more vibrant, walkable and bike friendly community for people of all ages and abilities.

The DHMMP calls for complete streets improvements that elevate Downtown Hilo as a destination and gathering place through improvements that support walkability and increased transportation choices for all modes. To achieve the desired Downtown environment, the DHMMP intentionally shifts the modal priority away from the current vehicle-dominated paradigm, and adopts a new "transportation hierarchy" that prioritizes non-motorized modes (walking and biking), as well as transit, over single occupancy cars.

PERFORMANCE & RECOGNITION AWARDS



**Hale Kula Elementary School, Classroom Building
Wahiawa, Oahu, Hawaii**

January 2016, the Masonry Institute of Hawaii recognized this project as their 2015 Project of the Year.

SSFM served as the structural engineer and civil engineer for this project that included a new 8 classroom building, library, administration building, covered play court, covered dining building; custodial center and special education classroom additions; and, reroofing, painting and abatement of 40 existing classrooms. The project added 4 major buildings and numerous renovations and additions to the existing K-5 campus with 969 students.

The Architect-of-Record was Design Partners, Inc.



**Complete Streets Designs Manual
Island of Oahu, Hawaii**

On 15 October 2015, this project was recognized by the American Planning Association, Hawaii Chapter, as its *Outstanding Transportation Planning 2015 Project*. SSFM provided professional planning services for the implementation of the goals and requirements of the City & County of Honolulu's Complete Streets Ordinance.

On 10 January 2016, this project was also recognized by the American Council of Engineering Companies, Hawaii. The project received an *Engineering Excellence, Honor Award*.

The Manual identifies cost-effective opportunities to implement complete streets and recommend ways to integrate multimodal traffic engineering improvements into projects that originate outside the scope of Complete Streets.



**Emergency Relocation of Keonepoko Elementary School
Pahoa, Island of Hawaii**

June 2015, the Building Industry Association of Hawaii recognized this project with a Merit Award in the Public Works Category.

SSFM provided emergency management and support services for the construction and relocation of assets from Keonepoko Elementary School due to the Puu Oo Vent lava flow crossing Highway 130 and impacting Pahoa Town. The project included planning, design, and construction management services for construction of a temporary elementary school campus for 450 students at the Keaau High School Athletic Parking Lot.

Estimated construction cost: \$3 million

PERFORMANCE & RECOGNITION AWARDS



**2015 Engineering Firm of the Year
Honolulu, Hawaii**

The Hawaii Chapter of the National Association of Industrial and Office Properties (NAIOP) has served as the state’s leading association for the commercial real estate industry’s decision-makers since 1988. This influential group of developers, owners, investors, asset managers, lenders and other industry professionals plays an active role in legislative representation, professional development and networking at both the local and national levels.

Each year, NAIOP Hawaii’s Kukulu Hale Awards recognize the achievements of those who have made significant contributions to Hawaii’s commercial real estate industry, enriching our community through their projects, professionalism and civic service.

On 8 May 2015, NAIOP Hawaii recognized SSFM International as its 2015 Engineering Firm of the Year during an award gala held at the Royal Hawaiian Hotel in Honolulu, Hawaii.



**Crater Rim Drive, Hawaii Volcanoes National Park
Island of Hawaii
Contract DTFH68-06-D-00011, Task Order T-09-002**

On 19 January 2014, this project was awarded a Honor Award for the 2014 Engineering Excellence Awards Competition by the American Council of Engineering Companies of Hawaii. SSFM was the Prime Consultant responsible for the rehabilitation of a 2.8 mile segment of this roadway within the Hawaii Volcanoes (HAVO) National Park. Estimated construction cost \$6.4 million.



**Parking Structure for the Joint Traffic Management Center and the Alapai Transit Center, Corner of Alapai and King Streets
Honolulu, Hawaii**

SSFM provided overall program management services, 30% design and construction management for the 411-car Joint Traffic Management Center Parking Structure and program and construction management of the Alapai Transit Center. \$24 million.

JTMC Parking Structure: Award of Excellence 2014, GCA of Hawaii; and; Award of Excellence 2013, Post-tensioning Institute of America

Alapa’i Transit Center: Award of Excellence 2014, American Institute of Architects, Honolulu Chapter

PERFORMANCE & RECOGNITION AWARDS



Evaluation and Update of Hawaii 2006 Ocean Resources Management Plan Statewide, Hawaii

On 19 September 2013, this project was recognized by the American Planning Association, Hawaii Chapter, as its *Outstanding Planning 2013 Project*. SSFM provided professional planning services for the evaluation and update of The *Hawai'i Ocean Resources Management Plan* (ORMP).

The ORMP plan provides a framework for integrated coastal management that aligns the management agency jurisdictions of the federal, state and county level to support the cultural, environmental, and socio-economic needs of the State of Hawai'i.



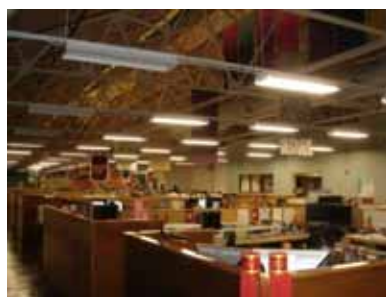
Asian Tropical Forest Elephant Exhibit, Honolulu Zoo Honolulu, Hawaii

In January 2013, this project was awarded the 2013 Engineering Excellence award by the American Council of Engineering Companies of Hawaii. SSFM International was the Prime Consultant for the planning and design of this new elephant habitat that was designed as a natural jungle setting to bring the elephants as close as possible to visitors for viewing while maintaining both visitor security and elephant privacy.



Construction Management Services Market Street Improvements, Phase II (Kahawai Street to Mokuhau Road) FAP No. ARR-3045(2) Wailuku, Maui, Hawaii

This project was selected by the Hawaii Society of Professional Engineers, Maui Chapter for the 2012 Project of the Year.



SSFM Honolulu Office LEED Gold Certification, Existing Building Operations & Maintenance (EBOM) Honolulu, Hawaii

In January 2012, this project was recognized by the American Council of Engineering Companies of Hawaii (ACEC) for demonstrated environmental leadership in creating a sustainable office through efficient and sustainable practices. This was the 1st LEED Gold EBOM Certification in the State of Hawaii. The project also received the 2012 ASHRAE Technology Award, Honorable Mention, in the Category I for Existing Commercial Buildings.

PERFORMANCE & RECOGNITION AWARDS



Ka Haka 'Ula O Ke'elikolani, College of Hawaiian Language Building, University of Hawaii at Hilo, Hilo, Hawaii

In May 2014, this project was recognized by the National Association of Industrial and Office Properties (NAIOP) with the 2014 NAIOP Kukulu Hale Award of Excellence for in the Public / Government Project Category.

In July 2010, this project was recognized by the American Institute of Architects for creativity, originality, power and potential for this 60,000 sf building on the University of Hawaii at Hilo Campus. SSFM is the Prime Consultant of the project and WCIT Architecture is the architect-of-record responsible for the design of the facility.



Hawaii Water Systems Technical Studies Program Statewide Dam Break Analysis, Hawaii Contract No. W9128A-05-D-0001 TO 0017

In May 2010, SSFM received an Award of Excellence from the US Army Corps of Engineers, Honolulu District in recognition of outstanding performance for the dam break analyses of the Aepo and Elua Reservoirs, Kauai, Hawaii. Work products were described as technically correct, complete, prepared in a timely manner, and responsive to the government objectives. The methodologies developed in this study are now standard for the conduct of dam break studies.



Context Sensitive Solutions (CSS) Process for the Keaau-Pahoa Road Improvement Project, Keaau to Pahoa Project No. STP-13-(24) Island of Hawaii

In November 2009, SSFM received an Honor Award from the American Council of Engineering Companies for the management of the context sensitive solutions process for this project. The CSS process promotes highly focused public outreach and continuous community involvement and, applied to this important transportation project, played a pivotal role in moving the community from a position of distrust to a position of "ownership", as residents became true stakeholders in helping ensure the ultimate success of this critical roadway improvements project.



FY08 MCON P-587, Sub Drive-In Magnetic Silencing Facility (MSF), Beckoning Point Pearl Harbor, Hawaii.

In recognition of exceptional performance, SSFM and joint venture partner, Moffatt & Nichol, were recognized by the Naval Facilities Engineering Command, Pacific, for "...extraordinary professionalism, technical excellence and total commitment to the project that were required to expedite the completion of the final design for the Sub Drive-In MSF. This complicated project design was delivered on time and within budget despite numerous changes in scope with no schedule or budget revisions." This is an \$87.6 million new submarine facility. Additional awards received include the following:

PERFORMANCE & RECOGNITION AWARDS



- 1) American Society of Civil Engineers, Hawaii Section (ASCE-H), 2011 Outstanding Civil Engineering Award in the Building/Structural Systems Project Category.
- 2) American Council of Engineering Companies, Hawaii (ACECH), 2012 Grand Conceptor Engineering Award.
- 3) Project Management Institute, Hawaii, 2011 Project of the Year, 2nd Place.
- 4) American Council of Engineering Companies, California (ACEC-California), 2012 Engineering Excellence Honor Award.
- 5) American Council of Engineering Companies (Washington DC), 2012 Engineering Excellence Honor Award (1 of 16 national awards in 2012)



Pedestrian Accessibility Route Improvements, Honokaa, Hawi, and Kapaau Island of Hawaii

SSFM received the Award of Merit in the Public Design Category for this project in the 2008 Accessible Design Awards sponsored by the Disability and Communication Access Board (DCAB). SSFM was the Prime Consultant for this project for the State of Hawaii, Department of Transportation, Highways Division.

The purpose of the project was to upgrade the highway through the towns of Honokaa, Hawi and Kapaau to meet the requirements of the Americans with Disabilities Act and provide an accessible route through each of the towns.



University of Hawaii, John A. Burns School of Medicine Kakaako, Honolulu, Hawaii

SSFM was the Structural Engineer of record for this \$115 million this new medical complex under a design/assist project delivery method. The facility consists of four buildings: Research Building, Education/Administration Building, Central Plant Building and Ancillary Building. In 2006, SSFM received the Concrete Achievements, 2006 Judges Award for engineering excellence using concrete and concrete products for this project.



Facilities Project Management And Tracking Database System (FACTRAK) Honolulu, Hawaii

SSFM was the Prime Consultant (overall project manager and designer) that assembled and led a team of sub-consultants who helped program and develop this project reporting system. In 2005, SSFM received an Honor Award from the American Council of Engineering Companies, Hawaii for this innovative information system that allowed the State Department of Education to manage, organize, and track information for their Repair and Maintenance

PERFORMANCE & RECOGNITION AWARDS

Program (R&M) and Capital Improvement Program (CIP) for the 256 public schools within the State of Hawaii.



**C-17 Support Utilities & Parking Lot, Phase 1 & Phase 2
Hickam Air Force Base
Oahu, Hawaii**

SSFM was the Prime Consultant for this project for the US Army Corps of Engineers, Honolulu District. SSFM received an Excellent Performance Evaluation on 22 June 2004 and the 2005 Award of Excellence on 19 April 2005 from the US Army Corps of Engineers, Honolulu District.



**Sewer Outfall Extension at Fort Kamehameha
Pearl Harbor, Oahu, Hawaii.**

SSFM was the Prime Consultant responsible for the planning and design of this award winning \$20 million project for the Department of the Navy, Pacific Division, Naval Facilities Engineering Command, Pearl Harbor. The project involved planning and design of a 42-inch diameter sewer outfall approximately 2.4 miles long that transverses over a coral reef and descends into the eastern edge of the Pearl Harbor Entrance Channel. Awards received have included the following:



- (1) NAVFAC 2005 Design Award: "Merit Award for Engineering in recognition of an especially high level of excellence in design." Presented by the Department of the Navy, Naval Facilities Engineering Command, Washington Navy Yard DC.
- (2) American Public Works Association (APWA) National 2005 Public Works Project of the Year (Environmental Project Over \$10 million Category).
- (3) APWA Hawaii Chapter 2004 Public Works Project of the Year (Environment Project Category).
- (4) American Society of Civil Engineers (ASCE), Hawaii Chapter 2004 Outstanding Civil Engineering Achievement award.



**Benchmarking U.S. Insular Areas in the Pacific for the
Department of Interior
10 Pacific Island Governments**

SSFM was the Prime Consultant responsible for planning and execution of a baseline benchmarking infrastructure and public facilities on Pacific Islands where funding has been provided by the U.S. Government. 2004 National Finalist for Engineering Excellence Awards competition with the American Council of Engineering Companies and 2003 Excellence Award from the American Council of Engineering Companies – Hawaii.

PERFORMANCE & RECOGNITION AWARDS



**Information Technology and Training Facility for the Oceanic Institute
Makapuu, Oahu, Hawaii**

SSFM was the Prime Consultant responsible for the planning and design of this project. Recipient of the Institutional & Judges Grand Award (2003) from the Associated Builders and Contractors, Inc. (Hawaii Chapter).



**Manana Property Development
Kuala Street and Phase IV Roads Project
Honolulu, Hawaii**

SSFM was the Construction Manager for this federal aid road improvement project. Recipient of the 2002 Project of the Year for Transportation More Than \$10 Million from the American Public Works Association, Hawaii Chapter.



**Manana Property Development, Manana Bus Maintenance Facility Project
Honolulu, Hawaii**

SSFM was the Prime Consultant for the Planning for the Manana Bus Maintenance Facility; and, the Structural Engineer for the Manana Bus Maintenance Facility. Recipient of the 2002 Project of the Year for Structures More Than \$10 Million from the American Public Works Association, Hawaii Chapter.



**Queen's Medical Center Emergency Department Relocation
Honolulu, Hawaii**

SSFM was the Structural Engineering and Civil Engineering Subconsultant to Architects Hawaii Ltd. for this project. Recipient of the 2001 Renovation of the Year Award for the (Kukulu Hale Awards) from the National Association of Industrial and Office Properties.

PERFORMANCE & RECOGNITION AWARDS



**Interstate Route H-3 Project
Oahu, Hawaii**

2000 Globe Award Competition for Environmental Excellence Award Winner presented to SSFM by the American Road & Transportation Builders Association-Transportation Development Foundation.



**Trellis Towers Condominium
Lorong 1 Toa Payoh
Singapore**

National Finalist in the 2000 Engineering Excellence Awards Competition from the American Consulting Engineers Council and Engineering Excellence Honor Award from the Consulting Engineers Council of Hawaii. This project also received the Best Buildable Design Award 2001 (highest ranking) from the Building and Construction Authority (Singapore) in their Construction Quality Assessment System, 2001.



**Sheraton Maui Hotel (Remodeled/Addition Building Award
Category)
Kaanapali, Maui, Hawaii**

SSFM was the Structural Engineer and Special Inspector for this \$90 million hotel project under contract to Wimberly Allison Tong & Goo. Recipient of Hawaiian Cement's 1998 Concrete Achievement Award for Engineering Excellence Using Concrete and Concrete Products.

PERFORMANCE & RECOGNITION AWARDS



**Po'o Po'o Bridge Replacement Project
Federal Aid Project #BR-0900(40)
Island of Maui**

September 1998 Letter of commendation from the County of Maui, Department of Public works and Waste Management Engineering Division, for an "outstanding job" as construction manager for this federal aid bridge replacement project.



**Addition to Parking Structure, Kapiolani Medical Center at Pali Momi
Honolulu, Hawaii**

SSFM was the Structural Engineer Consultant to Architects Hawaii Ltd. for this parking structure addition. Recipient of the 1998 Engineering Excellence Award from the Consulting Engineers Council of Hawaii.



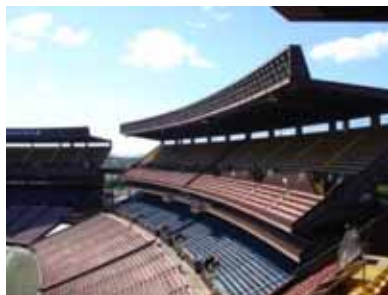
**FY97 BRAC Project P-268T Aircraft Apron and FY96 BRAC Project P-269T Modify Aircraft Wash and Rinse Facilities
Marine Corps Base Hawaii, Kaneohe Bay, Hawaii**

In November 1997, SSFM was presented with a Certificate of Appreciation from the Department of the Navy, Pacific Division, Naval Facilities Engineering Command in recognition of outstanding project management and responsiveness in the preparation of the accelerated design schedule, flexibility and design/engineering services reflecting the highest level of professionalism.



**FY94 MCON Project P-393P, EOD Operations Facility
Naval Station, Guam**

In November 1997, SSFM was presented with a Certificate of Appreciation from the Department of the Navy, Pacific Division, Naval Facilities Engineering Command in recognition of outstanding design package for complex project provided within budget, ahead of schedule and exceeding customer expectations.



**Corrosion Investigations, Mitigation and Repair Work at the Aloha Stadium
Honolulu, Hawaii**

SSFM was the Prime Consultant for this corrosion mitigation and repair project for the Aloha Stadium. Recipient of the 1996 Engineering Excellence Award from the Consulting Engineers Council.

PERFORMANCE & RECOGNITION AWARDS



**U.S. Army Reserve Center Project, Fort Shafter (New Public Building Award Category)
Honolulu, Hawaii**

SSFM was the Structural Engineer for this new Army Reserve Center project under contract to Luersen Lowery Tsushima & Associates. SSFM received Hawaiian Cement's 1994 Concrete Achievement Award for excellence in concrete design and construction for this project.



**Kaneohe Marine Corps Air Station Wastewater Treatment Plant Renovation
Kaneohe, Hawaii**

In February 1992, a Certificate of Appreciation from the Department of the Navy, Pacific Division, Naval Facilities Engineering Command awarded to SSFM's wholly owned subsidiary, Smith Young & Associates, Inc., for "outstanding plans, specifications, cooperation and response provided during Design and Construction" to meet a critical schedule for the wastewater treatment plant project.



**Kings Shops Waikoloa
Island of Hawaii**

SSFM was the Structural Engineer for this new retail complex under contract to Garduque Architects. In 1992, this project received a Best Retail Merit Award from the National Commercial Builders Council and was featured in the Building Design & Construction (national) magazine.



**Underpinning and Deep Excavation Construction at the Pali Momi Medical Center
Aiea, Hawaii**

SSFM was the Structural Engineer for the planning and design of the underpinning of the adjacent structures impacted by the deep excavations for this new medical center. In February 1988, SSFM received an Engineering Excellence Award from the Consulting Engineers Council of Hawaii for this project.



**Skilled Nursing Facility and Reference Lab, Kaiser Permanente Medical Center
Honolulu, Hawaii**

SSFM was the Structural Engineer under contract to Architects Hawaii Ltd. for this new facility located at the Kaiser Moanalua Medical Complex. In February 1986, SSFM received an Engineering Excellence Award from the Consulting Engineers Council of Hawaii for this project.

PERFORMANCE & RECOGNITION AWARDS



Teflon Column Hinges for the Viaduct Structures at Interstate H-1 Keehi Interchange Honolulu, Hawaii

SSFM was the Prime Consultant responsible for the design of the twin viaduct structures from Puuloa Road to Moanalua Stream. The planning and design of the viaduct structures accommodated anticipated future differential settlements of the foundations. In February 1985, SSSFM received the Grand Conceptor Award (highest award) from the Consulting Engineers Council of Hawaii for this project.



Pearl Harbor Interchange, Interstate H-1 Honolulu, Hawaii

SSFM and M&E Pacific were joint venture partners in the planning and design of this new interchange which included 6 major highway structures. In February 1979, the JV received an Engineering Excellence Award from the Consulting Engineers Council of Hawaii for this project.



Main Terminal Additions and Modifications at the Honolulu International Airport Honolulu, Hawaii

SSFM was the Structural Engineer for this major terminal addition and modification project under contract to the Ossipoff-Chang Joint Venture. In February 1977, SSFM received an Engineering Excellence Award from the Consulting Engineers Council of Hawaii for this project.

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UNIVERSITY OF HAWAII AT HILO

UH Hilo Administration
Office of the Chancellor

May 5, 2010

Mr. Michael P. Matsumoto, P.E.
President
SSFM International, Inc.
501 Sumner Street, Suite 620
Honolulu, HI 96817

Dear Mr. Matsumoto:

Re: Ka Haka 'Ula O Ke'elikolani /College of Hawaiian Language Building

We wish to commend SSFM International, Inc. for a project well done and the special effort to assure that this special project was kept on schedule under extreme and challenging circumstances.

A special thanks to Mr. Steve Yee, your project manager and his team that saw this through. Because of these efforts, the University of Hawaii proceed with the construction of this facility on schedule and budget.

Sincerely yours,



Rose Tseng
Chancellor

205 W. Kawili Street, Hilo, Hawaii 96720-4091
Telephone: (808) 934-3444, Fax/Telex: (808) 934-7022, www.uh.hawaii.edu
An Equal Opportunity/Affirmative Action Institution



Hawaii Electric Light Company, Inc. • PO Box 1027•Hilo, HI 96721-1027



January 26, 2010

Mr. Michael P. Matsumoto, P.E., FACEC
SSFM International, Inc.
501 Sumner Street, Suite 620
Honolulu, Hawaii 96817

Dear Mr. Matsumoto,

Subject: Commendation for Professional Services
HELCO Pepe'ekeo Substation Grading Plan

Issues with the grading and drainage for our Pepe'ekeo Substation has been an issue we've been planning to get resolved for a number of years.

We commend SSFM International for its responsiveness and quality of design, and are indeed pleased with the completed work.


We look forward to more opportunities to continue our working relationship in the years to come.

Sincerely,



Thomas W. Cummins, L.P.L.S.
Manager, Engineering Department

TWC:bb

	SOLID WASTE DIVISION DEPARTMENT OF ENVIRONMENTAL MANAGEMENT	
COUNTY OF HAWAII - 108 RAILROAD AVE. - HILO, HI 96720 HILO (808) 961-8515 WAIMEA (808) 887-3018 KONA (808) 327-3507 Fax: 961-8553 887-3025 327-3506 Website: www.hawaiiwastewaste.org		

Michael P. Matsumoto, PE, FACEC
 SSFM International, Inc.
 501 Sumner Street, Suite 620
 Honolulu, HI 96817

Subject: Commendation for Professional Services
 East Hawaii Regional Sort Station Construction Management

Dear Mr. Matsumoto,

On behalf of the Solid Waste Division of the County of Hawai'i Department of Environmental Management I would like to express my appreciation for the high level of professional Construction Management services provided by Bill DeMent of SSFM International, Inc. The responsive quality of service and changes involved in the progress and completion of the project were exceptional. We look forward to further opportunities to work together in the future.

Best Regards,


 Terin Gloor, PE

Hawai'i County is an equal opportunity provider.

LINDA LINGLE
 GOVERNOR



BRENNON T. MORIOKA
 DIRECTOR

Deputy Directors
 MICHAEL D. FORMBY
 FRANCIS PAUL KEENO
 BRIAN H. SENGUCHI
 JIRO A. SUMADA

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION
 HAWAII DISTRICT
 50 MAKAALA STREET
 HILO, HAWAII 96720
 TELEPHONE: (808) 933-8865 • FAX: (808) 933-8869
 January 25, 2010

IN REPLY REFER TO:

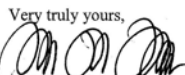
Michael P. Matsumoto, PE, FACEC
 SSFM International, Inc.
 501 Sumner Street, Suite 620
 Honolulu, HI 96817

Dear Mr. Matsumoto:

SUBJECT: Commendation for Professional Services
 Emergency Earthquake Rockfall Repairs
 Federal-Aid Project No. ER-15(19)

This is to express Hawai'i District's appreciation for the professional support received from SSFM International, Inc. on the above-referenced project. The responsive and high quality project management and professional engineering design services provided were essential for on-time delivery of an extremely fast-tracked project.

We look forward to continuing our working relationship in the years to come. Mahalo.

Very truly yours,

 STANLEY M. YAMURA
 Hawaii District Engineer

LINDA LINGLE
GOVERNOR



SARREY FUKUNAGA
INTERIM DIRECTOR

Deputy Director
FRANCIS PAUL KEENO
SHERRISE T. WOODRICK
SHIRAKI S. SAKURAI

IN REPLY REFER TO:

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

HAWAII DISTRICT
30 MAKAALA STREET
HONO, HAWAII 96720
TELEPHONE: (808) 933-8900 • FAX: (808) 933-8969

April 10, 2007

Mr. Michael Matsumoto
President
SSFM International, Incorporated
501 Sumner Street, Suite 620
Honolulu, HI 96817

Dear Mr. Matsumoto:


SUBJECT: PEDESTRIAN ACCESSIBILITY IMPROVEMENTS
Honokaa, Hawi & Kapaau
Project No. CMAQ-0100(62)

We would like to thank SSFM International, Incorporated as the prime consultant on the subject project for the State of Hawaii, I


Throughout the design process, there were changes in DUE due to accessibility requirements, and public outreach, and SSFM these changes to bring the project to a successful conclusion. As this project within budget and time requirements set by the cons

We especially want to recognize and emphasize that the ADA Coordinator were amazed that a continuous accessibility r accomplished. Photographs of this project are being used by our Training Program.

All of us at Hawaii District are looking forward to the co with SSFM International.

Very truly yours,

STANLEY M. TAMURA
Hawaii District Engineer

LINDA LINGLE
GOVERNOR



RUSS K. SAITO
COMPTROLLER

STATE OF HAWAII
DEPARTMENT OF ACCOUNTING AND GENERAL SERVICES
P.O. BOX 119, HONOLULU, HAWAII 96810

APR 30 2007

(P)1111.7

Mr. Corey Matsuoka
SSFM International
501 Sumner Street, Suite 620
Honolulu, Hawaii 96817


Dear Mr. Matsuoka:

Subject: Letter of Commendation for Leeward Homeless Shelters
Our Lady of Keauu Site
DAGS Job No. 12-33-7276

This letter is to acknowledge the high quality of work SSFM International and their subconsultants provided on the subject project, and we are especially grateful of your accommodation of an expedited schedule.

On July 6, 2006, Governor Linda Lingle signed a proclamation declaring a disaster emergency for the homeless individuals and families living on beaches, in public parks and elsewhere along the Leeward coast. This project was in response to this disaster emergency. SSFM International's rapid preparation of the site and infrastructure assessment allowed timely determination of the feasibility of constructing a homeless facility on the site.

Thank you for providing excellent service. We look forward to working with SSFM International on future projects. If you have any questions, please call me at 586-0500 or have your staff call Mr. Lance Maja of the Planning Branch at 586-0483.

Sincerely,

RALPH I. MORITA
Chief, Planning Branch

LM:vca

Innovate | Adapt | Sustain

SSFM
International

